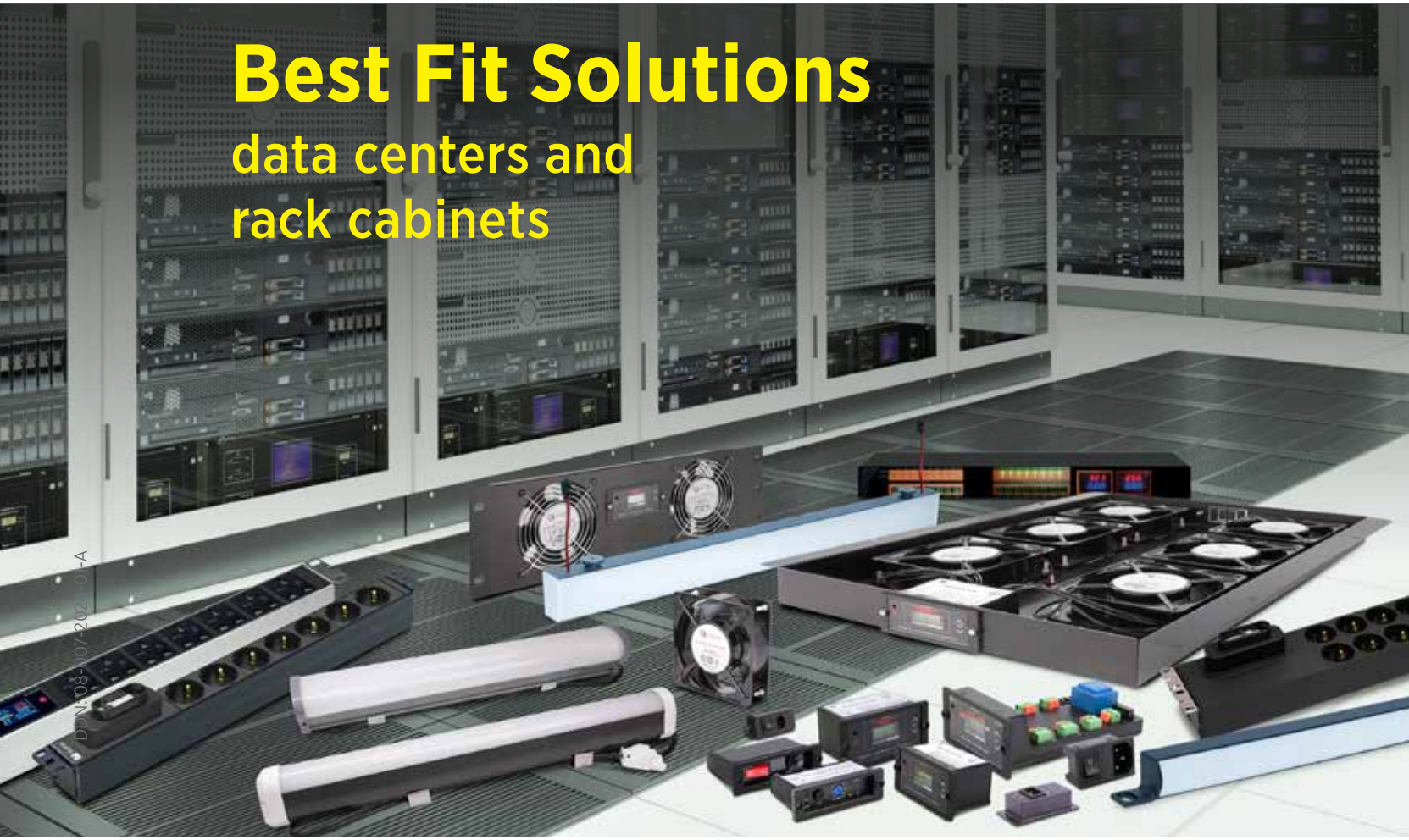
dorax®

innovation
& solution



Product Catalogue 2025

dorax

innovation & solution

Dorax products, with increased efficiency and durability for IT infrastructures, data centers and rack cabinets, customized to the needs and equipped with unique innovative features, continue to produce solutions with their experience, field-proven quality and qualified collaborations.
Over 35 years of experience, competence certified by international organizations and service approach are the basic dynamics that enable Dorax to aim being a global player.

SMARTPDU **SMARTFAN** **SMARTLIGHT**

Content

About Us

Power Distribution Units (PDU)

Fan Units and Modules

LED Lighting Modules

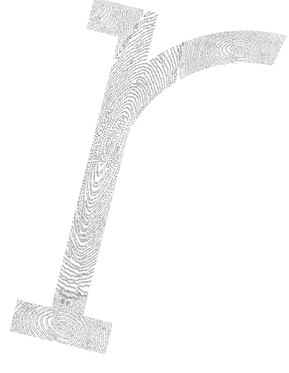
Intro

about us

With our experience since 1990, we provide our customers with **personalized, dynamic, international standard leading technologies**.

We are progressing with the aim of being an **effective player globally** with our team who took a role since the beginning and shaping of the industry in our country.

As doraks, being involved in every field where communication technologies are used since their establishment in our country, we manufacture accessories used in infrastructure systems as well as installing them. **We adopt are constantly developing the skills necessary to maintain dynamic, pioneering, international standards - based system.**



our service principles

“Zero Problem” Policy

By staying in coordination with all units affecting the project, it is a priority to notify possible problems in advance, to develop solutions, and to prevent cost and time loss with pre-production studies. It is also a part of our policy that the systems we install can operate smoothly and remain up-to-date for many years.

Team Work

Team spirit is taken as core, while the awareness of individual responsibility is formed, coordination is maintained and our team members add their experienced skills. It creates the business and individual ground to enable employees to develop themselves, increase their competencies and abilities, and maximize internal harmony and efficiency.

Occupational Safety

Priority Dorax, which undergoes regular occupational safety trainings and controls, aims to create an accident-free work environmen. Being aware of life-threatening dangers, complying with all occupational safety rules in all working conditions.

Customer Satisfaction

Dorax, which prioritizes the needs of its customers, aims to offer solutions that are personalized, need-oriented and suitable for long-term use, with the most advanced technologies, by analyzing their needs. After-sales services are offered as well

our production principles

Producing the Quality

We believe that quality is not acquired at the final check but begins with the design. From the moment we learn your demands, we design the most op - timum and long-lasting solution for your system, prioritize quality at every stage of production and test it in our quality control processes.

Delivery on Time

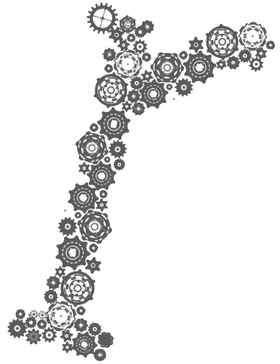
Dorax products can travel for long periods while being distributed all over the world. We understand the importance of following shipment deadlines and we work diligently to maintain our zero delay rate.

Trust in the Product and Services

With our confidence in our product and production process, we believe that our products are one of the strongest links of the chain in the systems they are used. We pride ourselves on the trust in our products and in providing the most suitable solution.

Lifetime Product Satisfaction

We are always with you for your questions and needs about the product with out aftersales services. Dorax products stand out with their trouble-free operation for years. after-sales support and user-oriented custom solutions.

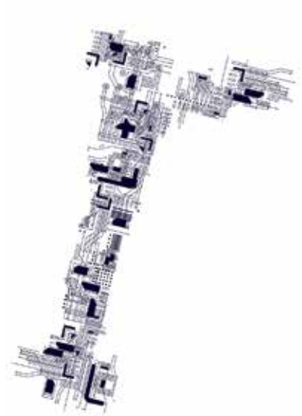


R&D and Product Development
Services

Dorax, with its innovative approach addressing the needs and future, designs and develops its products in its own facilities. These products are tested under challenging conditions, ensuring quality and durability that exceed international standards. At the same time, Dorax prioritizes aesthetic values, user-friendliness, and ease of access.

In addition to Dorax's innovations with international patents are modular smart or standard PDUs, advanced fan systems with numerous superior features for rack cabinets, and LED lighting solutions, product line also includes DC Power Distribution Units for devices operating at 5-9-12-15 Volts DC, Waterproof LED Lighting Units specifically designed to provide illumination under harsh working conditions, and Centralized Power Distribution Units known for their ease of use, resistance to tough physical conditions, and high safety standards.

These are just a few examples of Dorax's innovation-driven R&D and product development efforts.



Power Distribution Units (PDU)

Basic PDU Modules
SMART PDU Modules
Custom PDU Modules

Power Distribution Units (PDU)

Control and Protection Options
General Features

Circuit Breaker

Automatic fuses protect your devices by automatically cutting the electrical current in case of excessive current or short circuit in the electrical installation. It can also be turned on and off manually. Power and brand on demand.

ON/OFF Switch

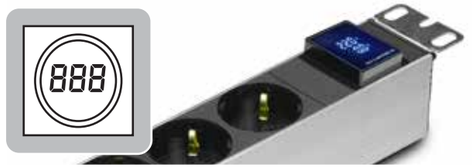
With the ON/OFF switch, you can manually pass through or cut the electrical current in your devices. Our ON/OFF switches are illuminated and show that there is energy by illuminating during the “ON” position.

EMI Filter

EMI (Electromagnetic Interference) filters protect against the harmful impacts of electromagnetic interference by reducing high frequency electronic noise.

Surge Protector

One of the biggest risks for electrical equipments is the sudden voltages spikes that lightning or similar interference can cause. These voltages can cause severe damage to electrical devices. Surge protector (arrestor) protect devices from voltage spikes in alternating current (AC).



Volt/Ampermeter

Volt/ampermeter does not provide protection for your devices. You can instantly monitor the voltage and current on your device.

Button Fuse

The button will go up in case of overload,only needs to be pushed back to be set again.

It is responsive and could not be turned on or off manually.

Multimeter Screen

Multimeter Screen does not provide protection but allows you to locally meter:

- Volt / Amper
- Watt
- Environment Temperature
- Total Operating Time
- KwH for operating time
- Power Factor

Residual Current Fuse

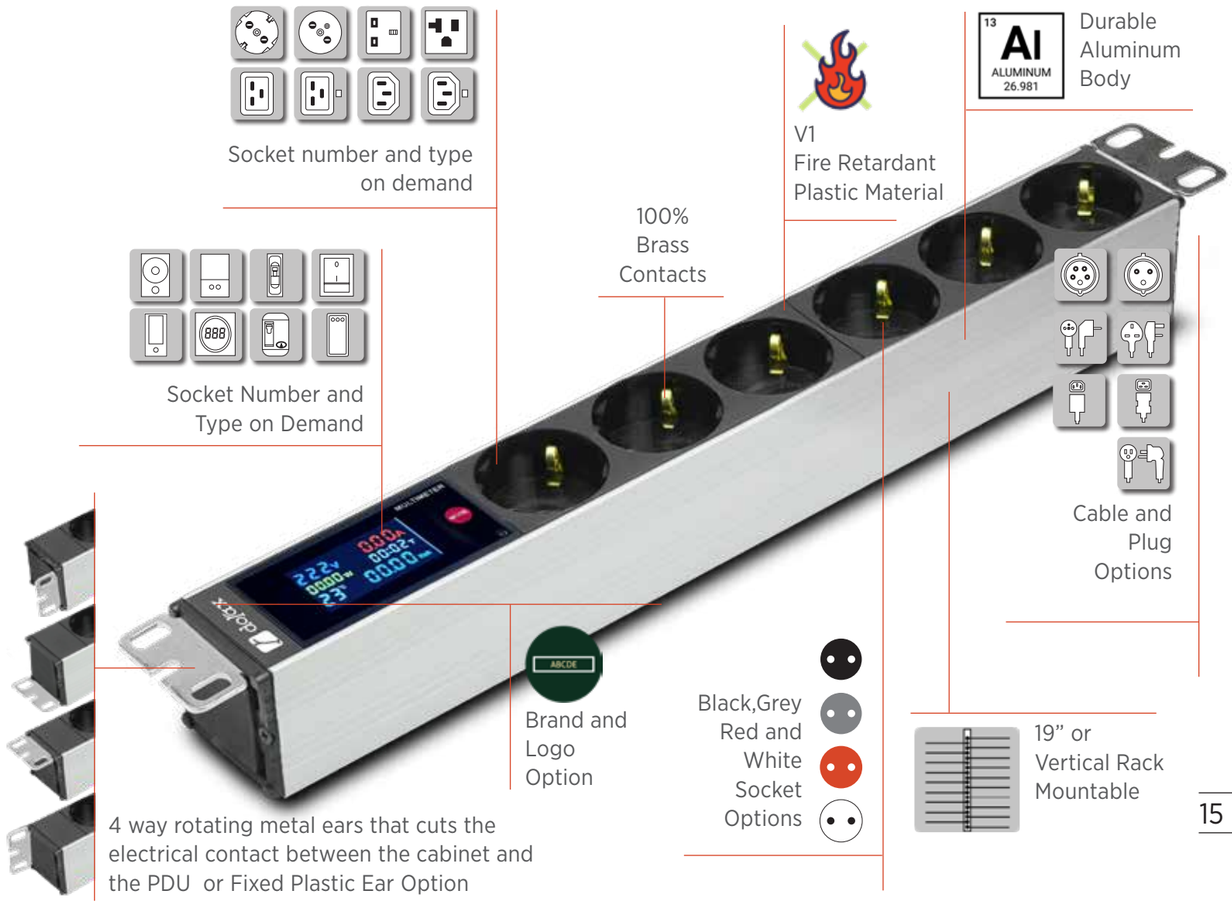
The Residual Current Fuse, which closes itself automatically in cases such as the failure of the connected devices, liquid spillage, deformation of the cables, and someone touching the energized areas, prevents any damage from electric shock, and ensures instant shutdown of the system even in the smallest uncontrolled current (30 mA).

BASIC PDU Modules
General Features

We know the importance of the data, devices and the uninterrupted performance in your data centers. DORAX Power Distribution Units provide the energy and security in all systems and devices, especially in data centers. With our products designed based on efficiency, lon - gevity and durability, our standard or personalized model options can offer the best fit solutions to users.

Power Distribution Units (PDU)

BASIC PDU Modules
General Features



Schuko (German / DIN 49440)

Socket Basic PDU Module

General Features

- Durable aluminum body
- Fire retardant Nylon6 sockets
- 4 Way rotating metal mounting ears that cut the electrical contact between the cabinet and the PDU
- 100% Brass contacts
- 16a (220 V AC) power,
- Combinations with different socket types
- 2 year warranty

Optional Features

- Grey or black aluminum body
- 4 Way rotating metal mounting ear or fixed plastic mounting ear option
- Protection and control options
- Horizontal (1U - 2U) or vertical mounting options
- Socket number on demand (2+ sockets)
- Cable length, diameter and plug type on demand
- Logo printing option
- Vertical PDU Options

Technical Features

Max Usage Power	4000 W - 24000 W
Operating Voltage	100 V - 250 V
Max Output Current	16 A - 63 A
Operating Humidity	5% - 95% (Non-condensing)
Operating Temperature	-5˚C to +45˚C
Storage Temperature	-25˚C to +65˚C
Standard Number of Sockets	6
Standard Cable Length	1.8 m
Standard Plug Type	UPS (DIN49441)

Certificates

CE · OHSAS 18001 · ISO 9001 · RoHS 2002/95/EC · YERLİ ÜRETİM · TÜRK PATENT

Without Protection

ON/OFF Switch

Circuit Breaker

Button Fuse

EMI/Surge Protector

Surge Protector

Residual Current Fuse

Volt/Amperemeter

Multimeter

Power Distribution Units (PDU)

UPS (French / DIN 49441)

Socket Basic PDU Module

General Features

- Durable aluminum body
- Fire retardant Nylon6 sockets
- 4 Way rotating metal mounting ears that cut the electrical contact between the cabinet and the pdu
- 100% Brass contacts
- 16A (220 V AC) power
- Combinations with different socket types
- 2 Year warranty

Optional Features

- Grey or black aluminum body
- 4 Way rotating metal mounting ear or fixed plastic mounting ear option
- Protection and control options
- Horizontal (1U - 2U) or vertical mounting options
- Socket number on demand (2+ sockets)
- Cable length, diameter and plug type on demand
- Logo printing option
- Vertical PDU options

Technical Features

Max Usage Power	4000 W - 24000 W
Operating Voltage	100 V - 250 V
Max Output Current	16 A - 63 A
Operating Humidity	5% - 95% (Non-condensing)
Operating Temperature	-5˚C to +45˚C
Storage Temperature	-25˚C to +65˚C
Standard Number of Sockets	6
Standard Cable Length	1.8 m
Standard Plug Type	UPS (DIN49441)

Certificates

CE, OHSAS 18001, ISO 9001 Certified, RoHS 2002/95/EC, Yerli Üretim, Türk Patent

Without Protection

ON/OFF Switch

Circuit Breaker

Button Fuse

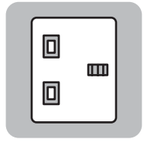
EMI/Surge Protector

Surge Protector

Residual Current Fuse

Volt/Amperemeter

Multimeter



UK (BS1363)
Socket Basic PDU

General Features

- Durable aluminum body
- Fire retardant Nylon6 sockets
- 4 Way rotating metal mounting ears that cut the electrical contact between the cabinet and the PDU
- 100% Brass contacts
- 13A (240 V AC) power
- Combinations with different socket types
- 2 Year warranty

Optional Features

- Grey or black aluminum body
- 4 Way rotating metal mounting ear or fixed plastic mounting ear option
- Protection and control options
- Horizontal (1U - 2U) or vertical mounting options
- Socket number on demand (1+ sockets)
- Cable length, diameter and plug type on demand
- Logo printing option
- Vertical PDU options

Technical Features

Max Usage Power	4000 W - 24000 W
Operating Voltage	100 V - 250 V
Max Output Current	16 A - 63 A
Operating Humidity	5% - 95% (Non-condensing)
Operating Temperature	-5˚C to +45˚C
Storage Temperature	-25˚C to +65˚C
Standard Number of Sockets	6
Standard Cable Length	1.8 m
Standard Plug Type	UK (BS1363)

Certificates

CE · OHSAS 18001 · ISO 9001 · RoHS 2002/95/EC · YERLİ ÜRETİM · TÜRK PATENT

Without Protection

ON/OFF Switch

Circuit Breaker

Button Fuse

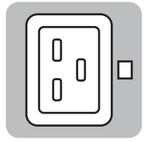
EMI/Surge Protector

Surge Protector

Residual Current Fuse

Volt/Amperemeter

Multimeter



Lockable IEC 320 (C13-C19)

Socket Basic PDU

General Features

- Durable aluminum body
- Fire retardant nylon6 sockets
- 4 Way rotating metal mounting ears that cut the electrical contact between the cabinet and the PDU
- 100% Brass contacts
- 130 (220 V AC) power for C13 and 16A (220 V AC) for C19 sockets
- Combinations with different socket types
- 2 Year warranty

Technical Features

Max Usage Power	4000 W - 24000 W
Operating Voltage	100 V - 250 V
Max Output Current	16 A - 63 A
Operating Humidity	5% - 95% (Non-condensing)
Operating Temperature	5˚C to +45˚C
Storage Temperature	-25˚C to +65˚C
Standard Number of Sockets	6
Standard Cable Length	1.8 m
Standard Plug Type	C14

Optional Features

- Grey or black aluminum body
- 4 Way rotating metal mounting ear or fixed plastic mounting ear option
- Protection and control options
- Horizontal (1U - 2U) or vertical mounting options
- Socket number on demand (1+ sockets)
- Cable length, diameter and plug type on demand
- Logo printing option
- Vertical PDU options

Certificates

CE · OHSAS 18001 · ISO 9001 · RoHS 2002/95/EC · YERLİ ÜRETİM · TÜRK PATENT

Power Distribution Units (PDU)

Without Protection

ON/OFF Switch

Circuit Breaker

Button Fuse

EMI/Surge Protector

Surge Protector

Residual Current Fuse

Volt/Amperemeter

Multimeter

IEC 320 (C13-C19)
Socket Basic PDU

General Features

- Durable aluminum body
- Fire retardant nylon6 sockets
- 4 Way rotating metal mounting ears that cut the electrical contact between the cabinet and the PDU
- 100% Brass contacts
- 130 (220 V AC) power for C13 and 16A (220 V AC) for C19 sockets
- Combinations with different socket types
- 2 Year warranty
- Grey or black aluminum body

Technical Features

Max Usage Power	4000 W - 24000 W
Operating Voltage	100 V - 250 V
Max Output Current	16 A - 63 A
Operating Humidity	5% - 95% (Non-condensing)
Operating Temperature	5˚C to +45˚C
Storage Temperature	-25˚C to +65˚C
Standard Number of Sockets	6
Standard Cable Length	1.8 m
Standard Plug Type	C14

Optional Features

- 4 Way rotating metal mounting ear or fixed plastic mounting ear option
- Protection and control options
- Horizontal (1U - 2U) or vertical mounting options
- Socket number on demand (1+ sockets)
- Cable length, diameter and plug type on demand
- Logo printing option
- Vertical pdu options

Certificates

CE · OHSAS 18001 · ISO 9001 · RoHS 2002/95/EC · YERLİ ÜRETİM · TÜRK PATENT

Without Protection

ON/OFF Switch

Circuit Breaker

Button Fuse

EMI/Surge Protector

Surge Protector

Residual Current Fuse

Volt/Amperemeter

Multimeter

NEMA
Socket Basic PDU

General Features

- Durable aluminum body
- ABS V0 lockable sockets
- 4 Way rotating metal mounting ears that cut the electrical contact between the cabinet and the PDU
- Combinations with different socket types
- 2 Year warranty

Optional Features

- Grey or black aluminum body
- 4 Way rotating metal mounting ear or fixed plastic mounting ear option
- Protection and control options
- Horizontal (1U - 2U) or vertical mounting options
- Socket number on demand (1+ sockets)
- Cable length, diameter and plug type on demand
- Logo printing option
- Vertical PDU options

Technical Features

Max Usage Power	2500 W - 12000 W
Operating Voltage	125 V
Max Output Current	20 A
Operating Humidity	5% - 95% (Non-condensing)
Operating Temperature	-5˚C to +60˚C
Storage Temperature	-25˚C to 765˚C
Standard Number of Sockets	6
Standard Cable Length	1.8 m
Standard Plug Type	N5-20

Certificates

CE, OHSAS 18001, ISO 9001 Certified, RoHS 2002/95/EC, YERLİ ÜRETİM, TÜRK PATENT

Without Protection

ON/OFF Switch

Circuit Breaker

Button Fuse

EMI/Surge Protector

Surge Protector

Residual Current Fuse

Volt/Amperemeter

Multimeter

Power Distribution Units (PDU)

ECO Series
Basic PDU Module

For your projects with high quantity or bulk purchases, DORAX ECO line offers price advantage.
Being the ideal solution with cost focus and international quality.

Technical Features

Max Usage Power	4000 W (220V)
Operating Voltage	100-240 VAC
Max Output Current	16 A
Operating Humidity	5% - 95% (Non-condensing)
Operating Temperature	-5˚C to +45˚C
Storage Temperature	-25˚C to 765˚C
Standard Number of Sockets	6
Standard Cable Length	1.5 m
Standard Plug Type	UPS (DIN49441)

General Features

- Black aluminum body
- Fire retardant plastic
- Schuko sockets (DIN 49440)
- 100% Brass contacts
- 2 Way rotating plastic mounting ears
- 19” 1U rack mountable

Optional Features

- Two protection options or without protection
- 3X, 6X, 8X, 9X socket number options
- Logo printing option

Certificates

CE, OHSAS 18001, ISO 9001 CERTIFIED, RoHS 2002/95/EC, YERLİ ÜRETİM, TÜRK PATENT

Circuit Breaker

ON/OFF Switch

Without Protection

Smart PDU Modules
General Features

SMARTPDU

The Dorax Smart PDUs in addition to power distribution, also measures energy, power, current, and voltage. It performs individual channel control and shares this information over the network.

It supports configurations such as single-phase with four channels or three separate phases (two channels for L1, one for L2, and one for L3 phase distribution). Measurements can be conducted separately for each channel, with channels controllable manually or automatically.

PDU data is shared via Ethernet using the SNMP protocol and, in automatic mode, sends pings to a target IP address using the ICMP protocol.

4-way rotating mounting ears that disconnect the electrical contact between the cabinet and the socket.

V1 flame-retardant plastic material

Brand and logo printing option

Management module with full control, energy saving, security, and precise measurement

Automatic or Mini Button Fuse Protection

Smart PDU Modules
Control Features

Power Input	85-250VAC, 63A max. The PDU consumes **5W** max and the PDU's own consumption is not accounted for in the load calculations. No regulation or filtering is applied to the input voltage; the provided power is distributed directly to the channels.
Power Output	Total of **63A max**, can be distributed between channels or groups
Energy Measurement	Energy measurements are displayed in kWh, with **1000 kWh** represented as **1 MWh.** The energy value is recorded hourly. If the device is restarted or loses power before recording, it continues from the last saved value once operational again.
Power Measurement	Power is measured individually for each channel. The total power distributed by the device is also calculated. Error margin is maximum of **±3%**.
Current Measurement	Current is measured using an electric field method, with a maximum measurement capacity of **63A**. Error margin is maximum of **±2.5%**.
Voltage Measurement	Voltage is measured within the range of **85 - 250 VAC**. Error margin is maximum of **±2.5%**.
Channel Control	Dorax Smart PDUs can have maximum of **4 channels**. A relay can control either one of these channels or any other desired connection to the relay can be made. The channel controlled by the relay can be switched **ON** or **OFF**

Durable aluminum body

Black / grey / red white socket color options

Socket number and type on demand

Vertical and Horizontal production options

100% Brass Contacts

19" or Vertical Rack mountable

Plug and Power Cable length/ diameter options on demand

SMART PDU Modules
General Features

Technical Features

- Single or 3-phase input
- 85-250 VAC Input Voltage
- 16A output current per channel
- Output voltage equal to input voltage
- Four independent output channels (Channels 1 and 2 on the same phase)
- Separate power measurement for each channel
- Automatic or manual ON/OFF option for Channel 1
- Remote manual or automatic ON/OFF relay contact option (Replaces Socket Channel 1)
- Built-in 1.54-inch, 240x240 IPS TFT screen
- Ethernet 10/100 Base-T/TX
- User interface
- Automatic ping to target IP feature
- Separate power, current, and voltage level alarms (Min-Max) for each channel
- Software updates via USB Type-C
- Cable length and diameter on demand
- Socket and Plug Type on demand
- 1U-2U standard aluminum body
- Nylon 6 v1 flame-retardant sockets
- 100% brass contacts
- 4 Way rotatable metal mounting ears
- 2 year warranty

Optional Features

- Two different control and safety options: Button protection and V-Circuit breaker
- Horizontal (1U - 2U) or vertical production options
- Socket number on demand
- Black, red, white, or gray socket color options
- Black or gray aluminum body color options
- Socket type on demand
- Brand logo printing option
- Cable length and diameter on demand

SMARTPDU

Certificates

Power Distribution Units (PDU)

SMART PDU Modules
Control Panel

LCD Screen

The device features a built-in 1.54-inch IPS TFT LCD screen. This screen displays energy, power, current, and voltage values, as well as network status, settings, and system configurations.

Mode Button

The mode button is used to navigate through the LCD screen menus. It can also be used for software installation. For software installation/updates, it must be used together with the reset button.

USB Software Update

Software updates via Type-C USB port.

Ethernet

The 10/100 Base-T/TX Ethernet protocol is used. Data is shared via the SNMP v2 protocol. In automatic mode, the device pings the target device using the ICMP protocol. Values can be manually monitored using the MIB file. Centralized systems can be established.

Reset Button

The reset button is not exposed; it can be accessed with a thin object and is located next to the sensor port.

Button Fused
Smart PDU

IEC 320 (C13-C19) Lockable Socket Smart PDU

IEC 320 (C13-C19) Socket Smart PDU

NEMA Socket Smart PDU

Schuko (DIN49440) Socket Smart PDU

UK (BS1363) Socket Smart PDU

UPS (French-DIN49441) Socket Smart PDU

Power Distribution Units (PDU)

Circuit Breaker
Smart PDU

IEC 320 (C13-C19) Lockable Socket Smart PDU

IEC 320 (C13-C19) Socket Smart PDU

NEMA Socket Smart PDU

Schuko (DIN49440) Socket Smart PDU

UK (BS1363) Socket Smart PDU

UPS (French-DIN49441) Socket Smart PDU

Custom Made PDU
General Features

In addition to the standard product options presented, we can meet your custom requirements through our flexible, fast, and high-quality design and production process. Starting from a single socket, PDUs with all features and combinations can also be manufactured with an OEM option.

Customizable features include horizontal/vertical mounting, length, brand logo, and phase count that you can select based on your needs and projects.

All customizing options are shown.

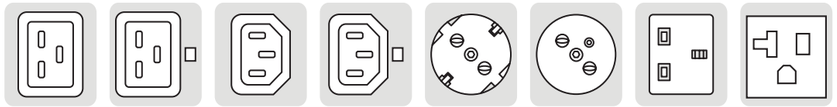
Technical Features

Max Power	2500 W - 12000 W
Operating Voltage	100 - 240 VAC
Max Output Current	16 A
Operating Humidity Level	5% - 95% (Non-condensing)
Operating Temperature	-5˚C to +60˚C
Storage Temperature	-25˚C to +75˚C
Standard Number of Sockets	Optional
Standard Cable Length	Optional
Standard Plug Type	Optional

Certificates

CE · OHSAS 18001 · ISO 9001 Certified · RoHS 2002/95/EC · YERLİ ÜRETİM · TÜRK PATENT

Socket Types



IEC 320 C19 Standard · IEC 320 C19 Lockable · IEC 320 C13 Standard · IEC 320 C13 Lockable · Schuko (DIN 49440) · UPS (French - DIN 49441) · UK (BS1363) · NEMA

Socket Color*

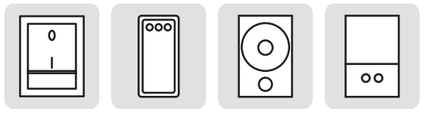
Black · White · Red · Grey

Socket Number

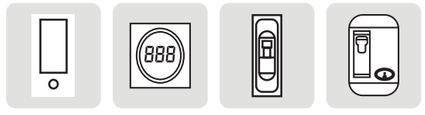
1+X Socket number on demand

Custom Made PDU
Basic PDU

Control and Protection Options



ON/OFF Switch · EMI Filter · Button Fuse · Surge Protector



Multimeter · Volt / Amperemetter · Circuit Breaker · Residual Current Fuse

Control / Protecton Number

1+X Control and Protection features can be combined on demand

Cable Diameter

3 x 1,5 mm² | 3 x 2,5 mm² | 3 x 4 mm² | 3 x 6 mm² | 5 x 4 mm² | 5 x 6 mm²

Cable Length*

1 m. | 1,5 m. | 1,8 m. | 2 m. | 2,5 m. | 3 m. | 5 m.

Body Material

Nylon 6 v1/v2 Plastic
Aluminum

Body Color

13 AI Black · 13 AI White · 13 AI Grey

* There is a special production option.

Custom Made PDU
Vertical PDU

General Features

Under the Dorax brand, modular vertical PDU productions, adaptable to the specific needs and preferences of data centers or rack cabinets, are manufactured and delivered in a very short time.

Technical Features

Max Power	4000 W - 24000 W
Operating Voltage	100 - 250 VAC
Max Output Current	16 A-63 A
Operating Humidity Level	5% - 95% (Non-condensing)
Operating Temperature	5˚C to +45˚C
Storage Temperature	-25˚C to +65˚C
Warranty	2 Years

Certificates

Customizable Features:

- Socket type, quantity and color
- Type and number of protections
- Number of phases
- Length
- Horizontal /V ertical orientation
- Plug type
- Cable diameter and length
- Body material
- Bracket material
- Brand logo

Custom Made PDU
DC PDU

General Features

DC power supply units for devices operating at DC voltages between 5-9-12-24 Volts. Available with 8 or 16 outputs in 19” rack standards or desktop models (8 outputs). These units offer a total output power of 5 A - 25 A and feature a green and red LED system to indicate operational status.

Certificates

Technical Features

Dimensions	480 x 44,5 x 200 mm.
Weight	1,2 kg.
Total Output Power	12 VDC - 240 W
Total Output Number	8 - 16 Socket
Measures	Input Voltage
	Output Voltage
	Output Current
Input Voltage	100 - 240 VAC
Output Voltage	12 - 24 VDC
Protection	IP 44

Custom Made PDU
Centralized PDU

It has been specially developed to provide ambient lighting in harsh working conditions.

With its ease of use, resistance to harsh physical conditions, high security it is the ideal solution for shipyards, construction sites and industrial areas with its standards.

General Features

- 5 mm thick durable steel body against harsh conditions
- Rubber feet resistant to heavy weight
- Rectified and filtered output power
- Power distributed and managed from a single center
- Separate fuse protection for each output and load control with amperemeter
- Ventilation inside the device with a fan
- Illuminated front panel
- Multiple distribution channels (6-12 independent outlets)
- Input and output voltage indicators
- High efficiency low volume torodial power transformer
- Design suitable for handling by hand and forklift
- Power input controlled by fuse and switch
- Fuse cover design prevents accidental shutdowns due to touch

Technical Features

Dimension	450 x 665 x 350 mm.
Weight	77 kg. 104 kg.
Total Output Power	5000 VA 200 A 12000 VA 500 A
Total Output Number	6 Socket 12 Socket
Measures	Input Voltage Output Voltage Output Current
Input Voltage	220 V AC
Output Voltage	24 V DC
Ventilation	Constant Speed Fan
Protection	IP 44

Certificates

CE · OHSAS 18001 · ISO 9001 · RoHS 2002/95/EC · YERLİ ÜRETİM · TÜRK PATENT

Rack Cabinet Internal Fan Units and Modules

Fan Units
Fan Management Modules
Fan Mounting Components

Fan Units and Models

The ingredients of excellence...

Durable Case Types

According to customer expectations and cabinet designs the case types produced by Dorax are: **SLIM** type, compatible with 25 mm high fans and saves space, **STANDARD** type, which is used with the most common 38 mm fans, Also **3U** and **19”** wide case types that are mounted on rack uprights or side covers for intermediate air circulation.

Cases are designed and manufactured according to the principles of easy assembly, durability and antivibration. Cases are available in different colors other than **RAL 9005** and **RAL 7035**.

Fans with Alternatives

Many different types of fans are used in the fan units.

Five or seven bladed fans with dimensions of 120 x 120x 38 mm, 120x120x25 mm can be of AC 220V, AC 110V,EC 110-220V, DC 12V voltage types, and each fan unit is designed accordingly.

For fans **to be quiet and long-lasting**, ball type products with cells lasting between **50-80 thousand hours** are preferred.

Silicone Clips

Elastic mounting pins are developed and produced as an alternative to metal screws to connect the fan and body.

When the fan-body connection is made with these elastic pins, in addition to the advantage of **fast installation**, the vibration that occurs during the rotation of the fan is isolated from the body and **noise on the metal surface is decreased**.

The vibration occurring on the fan itself is also decreased with the silicone clips, which helps with **longer lifespan of fans**.

1 °C Accuracy

Analog (mechanical) thermostats have a sensitivity of 4-8°C and do not meet expectations in critical places.

DIGITAL FAN MODULES designed and produced by Dorax are equipped with sensors that work with **0.1°C sensitivity**, and the temperature ranges can be set to 1°C, operating with high precision.

Practical Assembly Module

The Fan Mounting Module allows the fast and accurate installation of elements connected such as fans (up to 6 fans), internal & external thermostats, On-Off switches, protection fuses and main energy connection. The module is recommended to be used together with the On/Off Switch-Fuse Module

It is fixed with 4 pins without the need for screwing. It allows rapid assembly of all elements with length adjusted cables mounted on it. It can form a whole unit and be attached directly to the fan casing with the thermostat that can be mounted or with an external cable it can be connected to a thermostat mounted anywhere in the rack.

Customizable Modular Structure

Apart from the standard 2-4-6 fan units, Dorax can also customize for different designs and needs.

With its spectrum of options consisting of advanced modules instead of the existing simple fan units, Dorax can **quickly** put the expectations that customer’s dreams or needs to production.

Co-Aging System

Dorax has designed and produced modules that meet the expectations of **long life, smooth operation, low energy consumption and silence by preventing** unnecessary operation of fan units.

By dividing the fans in the case into two separate groups and rotating the working time of each group in certain periods it is aimed to operate all fans for the same amount of time.

The life expectancy is also increased by changing the fan rotation speed to the environmental conditions, and a **quiet and peaceful working** environment is created with less noise with low speed.

Qualified Wiring

Dorax picks cables in all its units according to the operating conditions and requirements. This approach prevents use of unnecessary resource, material waste, and additional costs, while maintaining the quality that ensures the units are **reliable and long-lasting**.

Fan Modules
General Features

Fan units that only include an ON/OFF switch and a fuse, only has one feature and are far from meeting expectations.

Dorax designs and manufactures modules that provide essential airflow, addressing the heat sensitivity of devices housed within rack cabinets. These modules ensure efficiency, control unnecessary operation and energy consumption while achieving silence and long lifespan.

The FAN UNITS produced with these modules are silent, long-lasting, and require a short manufacture time. With the modular design that is compatible with each other, the units can be easily upgraded with higher-featured modules.When all features into a single module, the module includes functions such as: ON/OFF control, thermostat-controlled temperature regulation, fan connection options ranging from 1 to 6, external thermostat connection, alarm feature in case of unusual conditions, and direct power connection.

Depending on the needs, various options are available, including modules with just an On/Off switch and fuse, analog thermostat modules, and digital thermostat modules.

Fan Modules
Model Comparison



			SLIM FAN	STANDART FAN	3U - 19" FAN
Management Module	ON/ Switch Fuse		✓	✓	✓
	All In One Analog		✓	✓	✓
	Digital Thermostat	Basic	—	✓	✓
		Pro	—	✓	✓
		Smart Fan	—	✓	—
Power Input	Cable Input		✓	✓	✓
	C14 Input Module		✓	✓	✓
	Combo Input Module		—	✓	✓
	C14 + Socket Module		—	✓	—
	Combo + Socket Module		—	✓	—
Cable Type	Schuko Pluf Cable		✓	✓	✓
	UK Plug Cable		✓	✓	✓
	Nema 5/15 Plug Cable		✓	✓	✓
	C14 Plug Cable		✓	✓	✓
	C20 Plug Cable		✓	✓	✓
Case Color	Black		✓	✓	✓
	Grey		✓	✓	✓

Smart FAN
Fan Management Module

SMARTFAN

- Co-Aging
- 1 °C setting range
- Digital thermostat sensor
- Heat alarm
- Fire retardant plastic body
- Different color options

General Features

Can used only in standard fan units. 1 to 6 fans can be connected. On the front panel, the LCD screen that shows the ambient temperature, set temperature and the operating status of the fans, temperature adjustment buttons, On/Off button and digital thermostat sensor.

On the back side are fan connection terminals, normally open (NO) relay contact output for alarm and energy input terminals. It can work with 100 - 240 VAC. The module is located in a plastic case and can be produced in different colors.

Nylon 6-v1 is used as material.

Certificates

CE · OHSAS 18001 · ISO 9001 · RoHS 2002/95/EC · YERLİ ÜRETİM · TÜRK PATENT

How it Works

Fans work in two separate groups. They operate at four different speed levels depending on the ambient temperature: 25% - 50% - 75% and 100%. The operating status of the fans is shown as an upward-growing arrow in the active speed mode, and the lower speed groups are shown with fixed bars. Ambient temperature is shown in the lower left corner of the LCD screen. The set temperature value is shown in the lower right corner. When first energized, this value is 25 degrees and the fans start working automatically according to this value. This value can be adjusted to +18 / +35 in 1 degree steps with the up-down buttons. The fans do not operate when the ambient temperature is more than 2 degrees below the set temperature value. When the ambient temperature is 2 degrees below the set temperature, one group of fans operates at 25% speed until the ambient temperature rises 2 degrees above the set value, while the other group is OFF. At values between 2-4 degrees, one of the groups is at 50% speed and the other is at 25% speed, One of the groups between 4-6 degrees is at 75% speed, the other is at 50% speed, One of the groups between 6-7 degrees is at 100% speed, the other is at 75% speed, If the ambient temperature increases by more than 10 degrees, all groups are operating at 100% while the alarm contact closes and alarm activates. AMBIENT TEMPERATURE VALUE starts flashing on the LCD screen.

Co-Aging Feature

Smart Fan Management Module has the CO-AGING feature. With Co-Aging fan groups rotate operating status every 5 minutes. Thus, all fans operate at equal times and conditions. The module can be turned off with the On/Off button. In this case, it goes into standby mode, the LCD screen light turns off and the fans stop. Energy is still in the system. When it is turned on again, the last set temperature value becomes active. In order to completely cut off the energy, it is recommended to use a Combo Connection Socket with On/Off switch, fuse and C14 socket at the energy input

Dijital Pro
Fan Management Module

- 1 °C setting range
- Digital thermostat sensor
- Heat alarm
- Fire retardant plastic body
- Different color options

General Features

Can be used only in standard fan units. 1 to 6 fans can be connected.

On the front panel, there is an LCD screen that shows the ambient temperature, set temperature and the operating status of the fans, temperature adjustment buttons, On/Off button and digital thermostat sensor.

On the back there are fan connection terminals, normally open (NO) relay contact output for alarm and energy input terminals. It can work with 100-240 VAC. The module is located in a plastic case and can be produced in different colors.

Nylon 6 - V1 is used as material.

Certificates

CE · OHSAS 18001 · ISO 9001 · RoHS 2002/95/EC · YERLİ ÜRETİM · TÜRK PATENT

How it Works

Fans operate at four different speeds depending on the ambient temperature: 25% - 50% - 75% and 100%. The operating status of the fans is shown by bars that grow upward according to speed. Ambient temperature is shown in the lower left corner of the LCD screen. The set temperature value is shown in the lower right corner. When first energized, this value is 25 degrees and the fans start to work automatically according to this value. This value can be adjusted to +18 / +35 in 1 degree steps with the up and down buttons. The fans do not operate when the ambient temperature is more than 2 degrees below the set temperature value. When the ambient temperature is 2 degrees below the set temperature, the fans are at 25% speed until the ambient temperature rises 2 degrees above the set value.

50% speed between 2-4 degrees,

It operates at 75% speed between 4-6 degrees and 100% speed between 6-7 degrees.

If the ambient temperature increases more than 10 degrees, the alarm contact closes and generates alarm information. AMBIENT TEMPERATURE VALUE starts to flash on the LCD screen. The module can be turned off with the On/Off button. In this case, it goes into standby mode, the LCD screen light turns off and the fans stop. Energy is still available in the system. When turned on again, the last set temperature value becomes active. In order to completely cut off the energy, it is recommended to use a Combo Connection socket with On/Off switch, fuse and C14 socket at the energy input.

Dijital Basic
Fan Management Module

- 1 °C setting range
- Digital thermostat sensor
- Fire retardant plastic body
- Different color options

General Features

It is only used in standard fan units, and allows the connection of 1 to 6 fans.

The front panel features an LCD screen displaying the ambient temperature, the set temperature, and the operating status of the fans, along with temperature adjustment buttons, an On/Off button, and a digital thermostat sensor.

On the rear side, there are fan connection terminals and power input terminals. Operates with 100 - 240 VAC.

The module is housed in a plastic casing and can be produced in various colors.

The material used is Nylon6-v1.

Certificates

CE · OHSAS 18001 · ISO 9001 · RoHS 2002/95/EC · YERLİ ÜRETİM · TÜRK PATENT

How it Works

The operating status of the fans is shown by bars growing upwards. Ambient temperature is shown in the lower left corner of the LCD screen. The set temperature value is shown in the lower right corner.

When first energized, this value is 25 degrees and, the fans start working automatically according to this value. This value can be adjusted to +18 / +35 in 1 degree steps with the up-down buttons. The fans start working when the set temperature value is more than 1 degree above the ambient temperature. The fans stop when the ambient temperature drops 0.1 degrees below. The module can be turned off with the On/Off button. In this case, it goes into standby mode, the LCD screen light turns off and the fans stop. Energy is still available in the system. When it is turned on again, the last set temperature value becomes active. If the ambient temperature increases by more than 10 degrees, it generates alarm information. AMBIENT TEMPERATURE VALUE starts flashing on the LCD screen. In order to completely cut off the power, it is recommended to use a Combo Connection socket with a mechanical On/Off switch, fuse and C14 socket on the power input.

All in One Mechanical Fan Management Module

- 5 °C temperature range
- Mechanical thermostat
- Fire retardant plastic body
- Different color body - label option

General Features

Designed for standard case fan units.

On the front panel of the modüle: On/Off switch, fuse (glass), Mechanical thermostat (adjustable between 0 - 70 °C), LED indicators showing energy and fan operating status, and fan mounting terminals on the back for mounting up to 6 fans for external thermostat connection with terminal block there are energy input terminals.

The module is located in a plastic case and can be produced in different colors.

Nylon 6 - V1 is used as material.

Certificates

CE · OHSAS 18001 · ISO 9001 · RoHS 2002/95/EC · YERLİ ÜRETİM · TÜRK PATENT

Fan Units and Models

How it Works

The All In One Mechanical Fan Mounting Module is designed for cooling and air circulation in rack cabinets with faster production, reducing the number of parts used, providing logistical advantages and making it easier to manage.

It can be used as a product option in existing fan modules without requiring major structural changes. Between 1 to 6 fans can be added, and an external thermostat can also be connected.

The front panel has an On/Off switch. This switch allows the Fan Module to be turned on and off. Next to the switch, there is a 3 Amp glass fuse for protection. In the center of the panel, there is a blue thermostat adjustment knob.

Using an appropriate screwdriver, the thermostat can be set to the desired temperature, ensuring that the fan operates when needed. On the right side, there is a PWR LED that lights up when there is power, and a FAN LED that lights up when the fans are active.

The module activates the fans when the ambient temperature exceeds the set temperature value. When the ambient temperature reaches the set value, fans stop. During fan operation, the FAN LED will light up. Once the temperature returns to a normal level, the fans stop, and the LED light turns off.

Slim Case
All in One Mechanical
Fan Management Module

- 5 °C temperature range
- Mechanical thermostat
- Fire retardant plastic body
- Different color body - label option

General Features

Designed for slim case fan units.

On the front panel of the modüle: On/Off switch, fuse (glass), Mechanical thermostat (adjustable between 0 - 70 °C), LED indicators showing energy and fan operating status, and fan mounting terminals on the back for mounting up to 6 fans for external thermostat connection with terminal block there are energy input terminals. The module is located in a plastic case and can be produced in different colors.

Nylon 6 - V1 is used as material.

Certificates

How it Works

The All In One Mechanical Fan Mounting Module is designed for cooling and air circulation in rack cabinets with faster production, reducing the number of parts used, providing logistical advantages and making it easier to manage. I

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The module activates the fans when the ambient temperature exceeds the set temperature value. When the ambient temperature reaches the set value, fans stop. During fan operation, the FAN LED will light up. Once the temperature returns to a normal level, the fans stop, and the LED light turns off.

ON/OFF Switch and Fused Mechanical Fan Management Module

- Fire retardant plastic body
- Different color body - label option

General Features

If the thermostat contacts on the fan mounting module are present or if an external thermostat is used, they close when the temperature rises, activating the fans.

During this time, the ON/OFF switch light turns on. In units whithout thermostat , when the switch is set to “On” position, the fans operate continuously, and the switch light remains on.

Nylon 6 - V1 is used as material.

Certificates

CE · OHSAS 18001 · ISO 9001 · RoHS 2002/95/EC · YERLİ ÜRETİM · TÜRK PATENT

Fan Units and Modules

How it Works

The illuminated **On/Off switch** on the front panel allows the Fan Module to be turned on and off. Next to the switch, there is a **5 Amp Button Fuse** for protection. In case of an overcurrent, the fuse button pops out. Pushing the button back sets back to normal operation.

When the thermostat is activated, the light on the illuminated **On/Off switch** provides a visual notification.

The module activates the fans when the ambient temperature exceeds the set value. When the ambient temperature returns to the set value, fans stop. During fan operation, the **FAN LED** lights up. Once the temperature returns to normal, the fans stop, and the LED light turns off.

Two options **with an internal thermostat** or **with an external thermostat** are available.

Slim Case ON/OFF Switch and Fused Mechanical Fan Management Module

General Features

If the thermostat contacts on the fan mounting module are present or if an external thermostat is used, they close when the temperature rises, activating the fans.

During this time, the ON/OFF switch light turns on. In units whithout thermostat , when the switch is set to “On” position, the fans operate continuously, and the switch light remains on.

Nylon 6 - V1 is used as material.

- Fire retardant plastic body
- Different color body - label option

Certificates

Fan Units and Modules

How it Works

The illuminated **On/Off switch** on the front panel allows the Fan Module to be turned on and off. Next to the switch, there is a **5 Amp Button Fuse** for protection. In case of an overcurrent, the fuse button pops out. Pushing the button back sets back to normal operation.

When the thermostat is activated, the light on the illuminated **On/Off switch** provides a visual notification.

The module activates the fans when the ambient temperature exceeds the set value. When the ambient temperature returns to the set value, fans stop. During fan operation, the **FAN LED** lights up. Once the temperature returns to normal, the fans stop, and the LED light turns off.

Two options **with an internal thermostat** or **with an external thermostat** are available.

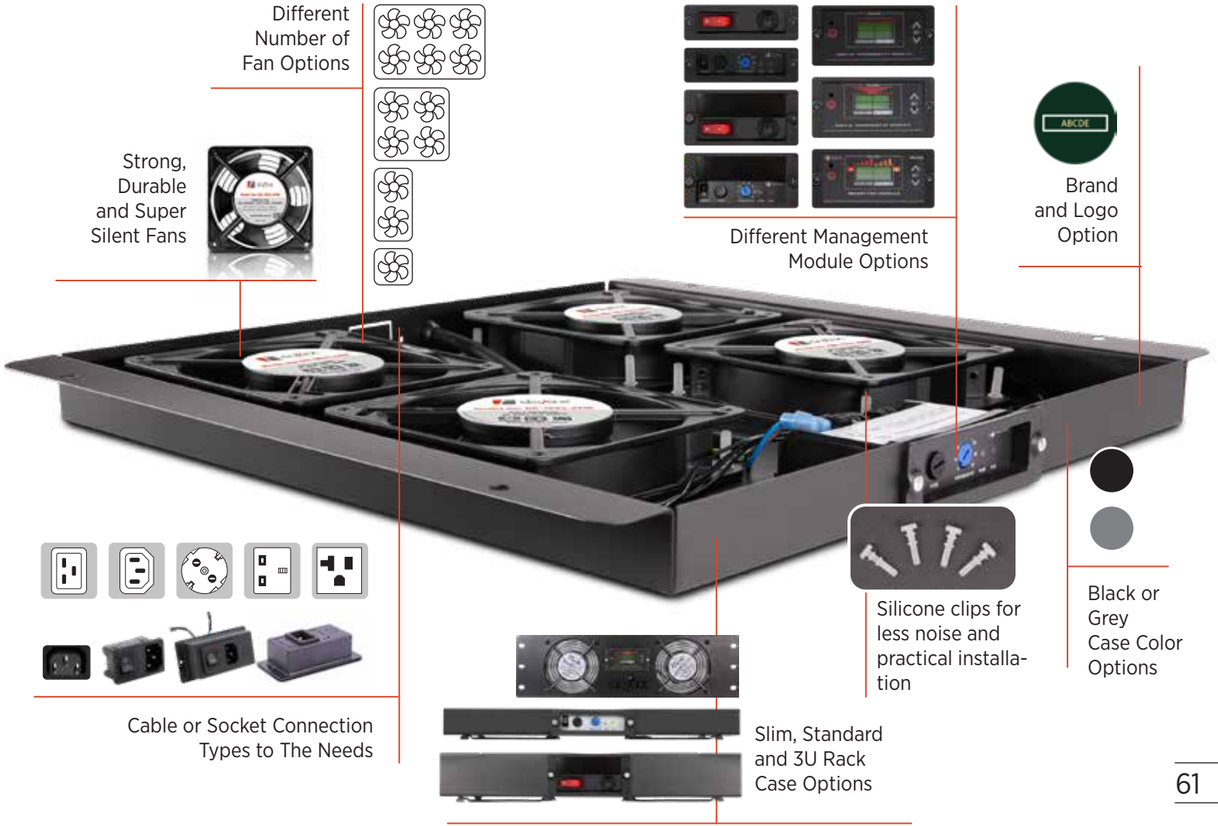
Fan Units
General Features

Fan Units and modules designed and produced improve rack cabinets and data centers with their silence, long product life, high performance and easy installation and customization features.

This line includes whether the complete units produced in the specified configuration or the modules and components that make up these units...

- Can be customized to the need
- Durable and long-lasting
- High Performance
- Super silent with its special design
- Easy installation and maintenance advantage
- International standards

Fan Units
Highlights



Smart Fan
Rack Interior Fan Units

SMARTFAN

General Features

The **Smart Fan Module** is designed to intelligently regulate fan speeds based on ambient temperature compared to a user-defined set temperature. It features an LCD screen that provides real-time status updates and operational controls.

LCD Screen Functionality:

Upper Left/Right Sections: Display the operating speeds of two fan groups as percentages.

Lower Left Section: Shows the current ambient temperature.

Lower Right Section: Displays the user-defined set temperature.

Indicators: The active fan group's speed is represented by a moving arrow, while inactive or lower-speed groups appear as static blocks.

Operational Behavior by Temperature Range:

- **Ambient ≤ Set Temperature - 2°C:** Fans remain off.
- **Set Temperature ± 2°C Range:** One fan group operates at 25% speed, the other remains off.
- **Set Temperature +2°C to +4°C:** One fan group runs at 50% speed.The other fan group starts at 25% speed.
- **Set Temperature +4°C to +6°C:** The 50% fan group increases to 75% speed. The 25% fan group increases to 50% speed.
- **Set Temperature +6°C to +7°C:** The 75% fan group reaches 100% speed.The 50% fan group increases to 75% speed.
- **Set Temperature +7°C to +10°C:** Both fan groups operate at 100% speed.
- **Ambient > Set Temperature +10°C:** All fans run at 100% speed. The system enters ALARM mode,

In this mode ambient temperature indicator flashes. A relay switches its normally open contact to closed, activating a connected safety function. The alarm remains active until the temperature drops below **Set Temperature +10°C.**

Fan groups alternate roles **every 5 minutes**, ensuring even wear.

Technical Features

Model Feature	Co-Aging, variable speed, alarm output.
Number of Fans	1 to 6
Input Voltage	220 VAC (110 VAC or 100-240 VAC Options)
Fan Voltage	220 VAC (110 VAC Optional)
Display	2x8 LCD Matrix
Control	Temperature adjustment (+18°C to +35°C in 1°C increments). ON/OFF (Standby) Button
Sensor	Digital with 0.1°C sensitivity
Fan Connection	Push-type terminal blocks
Alarm Output	Push-type terminal block with normally open (NO) contact (3 Amps)
Power Input	6.3 mm. Fatson Terminals
Mounting	M3 Screws
Certification	CE
Warranty	2 Years

Optional Features

- 2 - 4 - 6 fan capacity options
- Fan Types (5 / 7 Blades)
- Case Color (RAL 7035 Grey and RAL 9005 Black)
- Power Connection Type
- Brand Logo Option

Certificates

TASARIM TESCİL BELGESİ No: 2021 004072

Standart Case SmartFan 2 Fan Unit

Standart Case SmartFan 4 Fan Unit

Standart Case SmartFan 6 Fan Unit

Digital Pro
Rack Interior Fan Units

General Features

The Smart Fan Module is designed to intelligently regulate fan speeds based on ambient temperature compared to a user-defined set temperature. It features an LCD screen that provides real-time status updates and operational controls.

LCD Screen Functionality:

Upper Left/Right Sections: Display the operating speeds of two fan groups as percentages.

Lower Left Section: Shows the current ambient temperature.

Lower Right Section: Displays the user-defined set temperature.

Indicators: The active fan group's speed is represented by a moving arrow, while inactive or lower-speed groups appear as static blocks.

Operational Behavior by Temperature Range:

- **Ambient ≤ Set Temperature - 2°C:** Fans remain off.
- **Set Temperature ± 2°C Range:** One fan group operates at 25% speed, the other remains off.
- **Set Temperature +2°C to +4°C:** One fan group runs at 50% speed.The other fan group starts at 25% speed.
- **Set Temperature +4°C to +6°C:** The 50% fan group increases to 75% speed. The 25% fan group increases to 50% speed.
- **Set Temperature +6°C to +7°C:** The 75% fan group reaches 100% speed.The 50% fan group increases to 75% speed.
- **Set Temperature +7°C to +10°C:** Both fan groups operate at 100% speed.
- **Ambient > Set Temperature +10°C:** All fans run at 100% speed. The system enters ALARM mode,

In this mode ambient temperature indicator flashes.A relay switches its normally open contact to closed, activating a connected safety function.The alarm remains active until the temperature drops below **Set Temperature +10°C.** Fan groups alternate roles **every 5 minutes**, ensuring even wear.

Fan Units and Models

Technical Features

Model Feature	Variable speed, alarm output.
Number of Fans	1 to 6
Input Voltage	220 VAC
Fan Voltage	220 VAC
Display	2 x 8 LCD Matrix
Control	Temperature adjustment (+18°C to +35°C in 1°C increments). ON/OFF (Standby) Button
Sensor	Digital with 0.1°C sensitivity
Fan Connection	Push-type terminal blocks
Alarm Output	Push-type terminal block with normally open (NO) contact (3 Amps)
Power Input	6.3 mm. Fatson Terminals
Mounting	M3 Screws
Certification	CE
Warranty	2 Years

Optional Features

2 - 4 - 6 fan capacity options

Fan Types (5 / 7 Blades)

Case Color (RAL 7035 Grey and RAL 9005 Black)

Power Connection Type

Brand Logo Option

Certificates

TASARIM TESCİL BELGESİ No: 2021 004072

Standard Case Digital Pro Fan Unit with 2 Fans

Standard Case Digital Pro Fan Unit with 4 Fans

Standard Case Digital Pro Fan Unit with 6 Fans

Digital Basic
Rack Interior Fan Units

General Features

It operates with the Digital Basic module. The module activates the fans when the ambient temperature exceeds the set temperature value by **1°C**.

When the ambient temperature reaches the set value, the fans stop.

There are four separate areas on the LCD screen:

The top left and right modules: the operational status of the fan groups,

The bottom left section: the ambient temperature

The bottom right section: the set temperature value. When the fans are active, they are indicated by bar graphs moving upwards on the LCD screen.

When the ambient temperature exceeds the set value by **10°C**, the module enters alarm mode. In this case, the ambient temperature value blinks on the LCD screen, providing a visual warning.

Technical Features

Model Feature	Fixed speed, no alarm output.
Number of Fans	1 to 6
Input Voltage	220 VAC
Fan Voltage	220 VAC
Display	2 x 8 LCD Matrix
Control	Temperature adjustment (+18°C to +35°C in 1°C increments). ON/OFF (Standby) Button
Sensor	Digital with 0.1°C sensitivity
Fan Connection	Push-type terminal blocks
Alarm Output	Push-type terminal block with normally open (NO) contact (3 Amps)
Power Input	6.3 mm. Fatson Terminals
Mounting	M3 Screws
Certification	CE
Warranty	2 Years

Optional Features

2 - 4 - 6 fan capacity options

Fan Types (5 / 7 Blades)

Case Color (RAL 7035 Grey and RAL 9005 Black)

Power Connection Type

Brand Logo Option

Certificates

TASARIM TESCİL BELGESİ
No: 2021 004072

Digital Basic Fan Unit with 2 Fans

Digital Basic Fan Unit with 4 Fans

Digital Basic Fan Unit with 6 Fans

Analogue All in One
Rack Interior Fan Units

General Features

It operates with the All-in-One module. The module activates the fans when the ambient temperature exceeds the set temperature value .When the ambient temperature reaches the set temperature, the fans stop. During fan operation, the FAN LED light turns on.

When the temperature returns to normal levels, the fans stop, and the LED light turns off.

This switch on the front panel can be used to turn the Fan Module on and off.

Next to the switch, there is a 3 Amp glass fuse for protection. In the middle of the panel, there is a blue thermostat adjustment knob.

Using a suitable screwdriver, the desired temperature value can be set, allowing the fan to operate when necessary. On the right side, there is a PWR LED that lights up when powered on, and a FAN LED that lights up when the fans are active.

Fan Units and Modules

Technical Features

Model Feature	Mechanical thermostat, all-inclusive front panel
Number of Fans	1 to 6
Input Voltage	100 - 220 VAC
Fan Voltage	220 VAC (must be compatible with input voltage)
Front Panel	ON/OFF Switch, fuse, thermostat adjustment knob, and status LEDs
Control	Mechanical Thermostat
Sensor	Bimetal mechanical thermostat adjustable between 0°C and +70°C
Fan Connection	Push-type terminal blocks
Alarm Output	Screw Type terminal socket
Power Input	6.3 mm. Fatson Terminals
Mounting	M3 Screws
Certification	CE
Warranty	2 Years

Optional Features

2 - 4 - 6 fan capacity options

Fan Types (5 / 7 Blades)

Case Color (RAL 7035 Grey and RAL 9005 Black)

Power Connection Type

Brand Logo Option

Certificates

TASARIM TESCİL BELGESİ
No: 2021 004072

Standart Case All in One Fan Unit with 2 Fans

Standart Case All in One Fan Unit with 4 Fans

Standart Case All in One Fan Unit with 6 Fans

Analogue All in One
Rack Interior Slim Case Fan Units

General Features

It operates with the Slim Case All-in-One module. The module activates the fans when the ambient temperature exceeds the set temperature value. When the ambient temperature reaches the set temperature, the fans stop. During fan operation, the FAN LED light turns on. When the temperature returns to normal levels, the fans stop, and the LED light turns off.

The front panel has an On/Off switch.

This switch can be used to turn the Fan Module on and off.

Next to the switch, there is a 3 Amp glass fuse for protection. In the middle of the panel, there is a blue thermostat adjustment knob.

Using a suitable screwdriver, the desired temperature value can be set, allowing the fan to operate when necessary. On the right side, there is a PWR LED that lights up when powered on, and a FAN LED that lights up when the fans are active.

Technical Features

Model Feature	Mechanical thermostat, all-inclusive front panel
Number of Fans	1 to 6
Input Voltage	100 - 220 VAC
Fan Voltage	220 VAC (must be compatible with input voltage)
Front Panel	ON/OFF Switch, fuse, thermostat adjustment knob, and status LEDs
Control	Mechanical Thermostat
Sensor	Bimetal mechanical thermostat adjustable between 0°C and +70°C
Fan Connection	Push-type terminal blocks
Alarm Output	Screw Type terminal socket
Power Input	6.3 mm. Fatson Terminals
Mounting	M3 Screws
Certification	CE
Warranty	2 Years

Optional Features

2 - 4 - 6 fan capacity options

Fan Types (5 / 7 Blades)

Case Color (RAL 7035 Grey and RAL 9005 Black)

Power Connection Type

Brand Logo Option

Certificates

TASARIM TESCİL BELGESİ
No: 2021 004072

Slim Case All in One Fan Unit with 2 Fans

Slim Case All in One Fan Unit with 4 Fans

Slim Case All in One Fan Unit with 6 Fans

ON/OFF Switch and Fused All In One

Rack Interior Fan Units

General Features

The system operates with an On/Off Switch and circuit breaker. The module activates the fans when the ambient temperature exceeds the set temperature. Once the temperature returns to the set level, the fans stop. During fan operation, the FAN LED indicator lights up. When the fans stop after the temperature is back to set level and the LED indicator turns off.

On/Off Switch-Circuit breaker Mechanical Fan Units designed for cooling and air circulation in rack cabinets with faster production, reducing the number of parts used, providing logistical advantages and making it easier to manage.

The module includes an illuminated On/Off switch and a 5-Amp button circuit breaker. Its closed design ensures all connections are protected, offering safe operation.

It can be used as an alternative in existing fan modules without significant structural modifications. While it can be used independently, we recommend using it with the FAN MOUNTING BOARD for quick and safe assembly. When used with the Fan Mounting Board, 1 to 6 fans can be added, and external or internal thermostats can be connected.

Fan Units and Modules

Technical Features

Model Feature	Mechanical thermostat, ON/OFF Switch and Fuse Front Panel and Fan Mounting Card
Number of Fans	1 to 6
Input Voltage	100 - 220 VAC
Fan Voltage	220 VAC (must be compatible with input voltage)
Front Panel	Illuminated ON/OFF Switch, Fuse
Control	Mechanical Thermostat
Sensor	Bimetal mechanical thermostat adjustable between 0°C and +70°C
Fan Connection	Push-type terminal blocks
Alarm Output	Screw Type terminal socket
Power Input	6.3 mm. Fatson Terminals
Mounting	M3 Screws
Certification	CE
Warranty	2 Years

Optional Features

2 - 4 - 6 fan capacity options

Fan Types (5 / 7 Blades)

Case Color (RAL 7035 Grey and RAL 9005 Black)

Power Connection Type

Brand Logo Option

Certificates

TASARIM TESCİL BELGESİ
No: 2021 004072

Standard Case ON/OFF Switch and Fused Fan Unit with 2 Fan

Standard Case ON/OFF Switch and Fused Fan Unit with 4 Fan

Standard Case ON/OFF Switch and Fused Fan Unit with 6 Fan

ON/OFF Switch and Fused All In One
Rack Interior Slim Case Fan Units

General Features

The system operates with a Slim Case On/Off Switch and circuit breaker.

The module activates the fans when the ambient temperature exceeds the set temperature. Once the temperature returns to the set level, the fans stop. During fan operation, the FAN LED indicator lights up. When the fans stop after the temperature is back to set level and the LED indicator turns off.

On/Off Switch-Circuit breaker Mechanical Fan Units designed for cooling and air circulation in rack cabinets with faster production, reducing the number of parts used, providing logistical advantages and making it easier to manage.

The module includes an illuminated On/Off switch and a 5-Amp button circuit breaker. Its closed design ensures all connections are protected, offering safe operation.

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Fan Units and Models

Technical Features

Model Feature	Mechanical thermostat, ON/OFF Switch and Fuse Front Panel and Fan Mounting Card
Number of Fans	1 to 6
Input Voltage	100 - 220 VAC
Fan Voltage	220 VAC (must be compatible with input voltage)
Front Panel	Illuminated ON/OFF Switch, Fuse
Control	Mechanical Thermostat
Sensor	Bimetal mechanical thermostat adjustable between 0°C and +70°C
Fan Connection	Push-type terminal blocks
Alarm Output	Screw Type terminal socket
Power Input	6.3 mm. Fatson Terminals
Mounting	M3 Screws
Certification	CE
Warranty	2 Years

Optional Features

- 2 - 4 - 6 fan capacity options
- Fan Types (5 / 7 Blades)
- Case Color (RAL 7035 Grey and RAL 9005 Black)
- Power Connection Type
- Brand Logo Option

Certificates

TASARIM TESCİL BELGESİ No: 2021 004072

Slim Case ON/OFF Switch and Fused Fan Unit with 2 Fans

Slim Case ON/OFF Switch and Fused Fan Unit with 4 Fans

Slim Case ON/OFF Switch and Fused Fan Unit with 6 Fans

Fan Units and Modules

Rack 3U Case
Fan Units

General Features

Silicone clips for less noise and practical installation

Digital Pro Fan Management Module

Durable Sheet Metal Case

Specially designed, super silent fans with dimensions of 120 x 120 x 38 mm, 110 VAC or 220 VAC power.

Schuko, UK, Nema 5-15, C14, C20 plug cable or C14 socket input power supply cable options.

Technical Features

Model Feature	Digital thermostat
Number of Fans	2
Input Voltage	100 - 220 VAC
Fan Voltage	220 VAC (must be compatible with input voltage)
Front Panel	Digital Pro Fan Management Module
Power Input	Direct Cable Connection C14 Socket or Combo Socket
Mounting	M6 Screws suitable for Rack Mount
Certification	CE
Warranty	2 Years

Optional Features

- Fan Types (5 / 7 Blades)
- Case Color (RAL 7035 Grey and RAL 9005 Black)
- Power Connection Type
- Brand Logo Option

Certificates

TASARIM TESCİL BELGESİ
No: 2021 004072

Rack 3U Case Fan Unit with 2 Fans

Fan Mounting Elements
General Definition

Fan Units and modules designed and produced improve rack cabinets and data centers with their silence, long product life, high performance and easy installation and customization features.

This line includes whether the complete units produced in the specified configuration or the modules and components that make up these units...

- Adaptable to every need.
- Durable and long-lasting.
- High performance.
- Super silent with its special design.
- Easy installation and maintenance advantage.
- International standards.

Fan Units and Modules

Custom Design
Fans

Super quiet

Durable

Easy to install

General Features

In the designed fan units, various types of fans are used. These include 5 or 7-blade fans with dimensions of 120 x 120 x 38 mm or 120 x 120 x 25 mm.

The fans can operate on voltage types such as AC 220V, AC 110V, EC 110-220V, or DC 12V, and each fan unit is designed accordingly.

To ensure quiet operation and durability, ball-bearing fans are selected, with a lifespan ranging between 50.000 and 80.000 hours.

Technical Features

Fan Dimensions	120 x 120 x 38 mm. or 120 x 120 x 25 mm. with 5 or 7 blades
Voltage Options	110 VAC, 220 VAC, 100-220 VEC, 12 VDC
Body Material	Aluminum or thermoplastic
Structure	Ball-bearing fan mechanism.
Lifespan	50,000 to 80,000 hours (depending on the selected model)

Certificates

Fan Connection
Module

General Features

Fire retardant body

Color options

Easy installation

It is a module that facilitates easy and accurate connections for 1 to 6 fans, an On/Off switch, a circuit breaker, power input connections, and external/internal thermostats.

After adjusting the cable lengths to fit the fan unit, all components can be connected without the need for any hand tools.

Certificates

CE | OHSAS 18001 | ISO 9001 CERTIFIED

YERLİ ÜRETİM | TÜRK PATENT

Fan Units and Modules

Custom Design
Elastic Clips

General Features

Elastic mounting pins offer an alternative to joining fans and casings with metal screws.

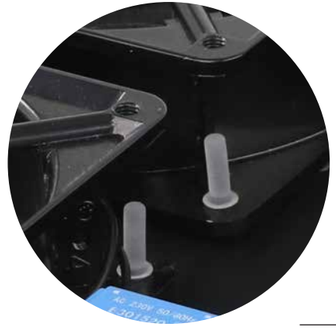
When these elastic pins are used to connect the fan and casing, they provide **quick installation**, they enable fast and easy assembly without the need for complex tools. They **isolate vibrations** generated by the fan's operation from the casing, preventing unnecessary noise on metal surfaces. Reducing the vibration occurring on the fan itself, minimizing wear and tear, **extends** the fan's operational lifespan.

These features make elastic mounting pins an efficient and noise-reducing solution for fan installations.

Fire retardant body

Easy installation

Anti vibration



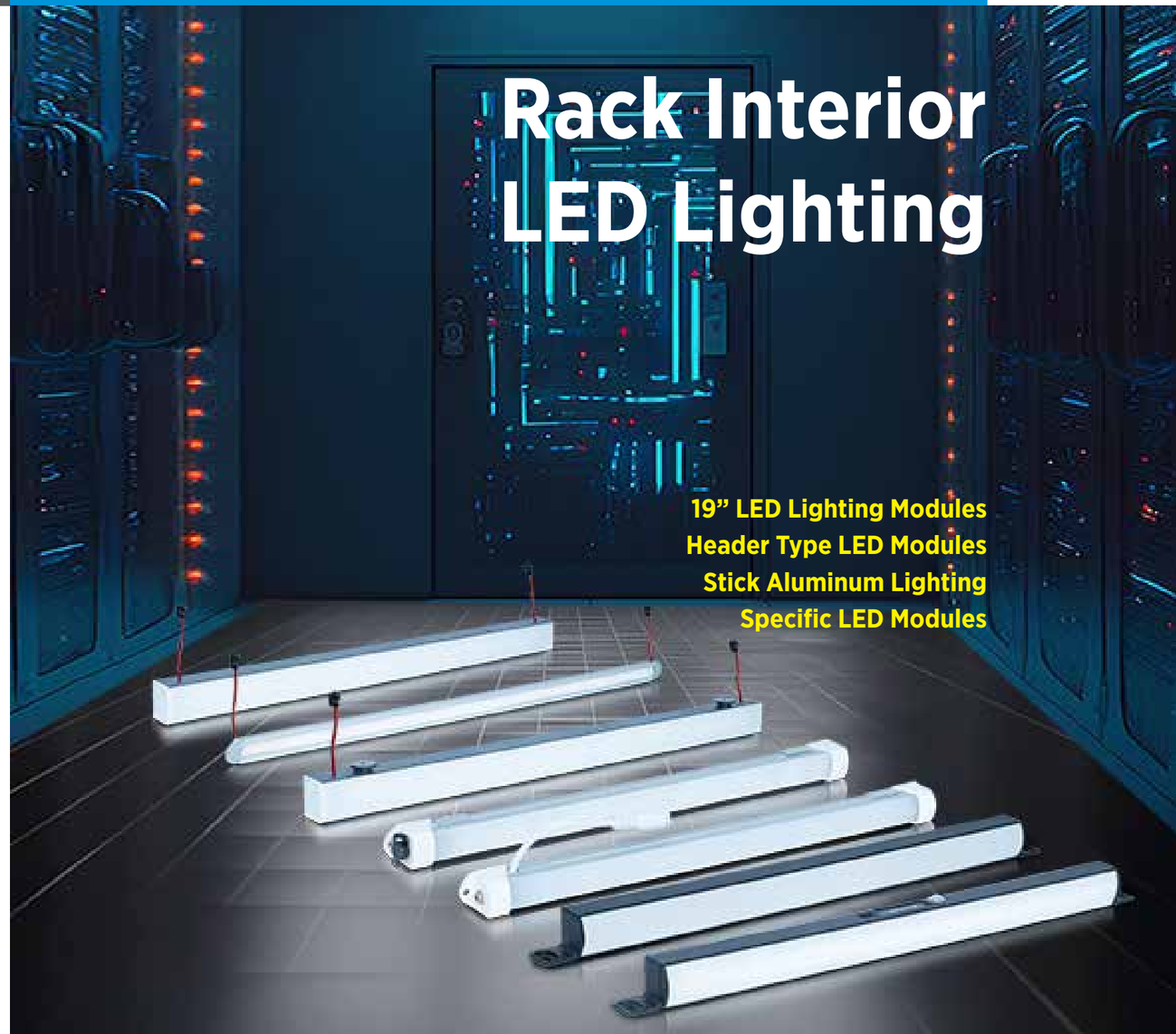
Energy Input
Sockets

C14 Socket
It is the most common socket type in the computer systems. Cables that can easily connect to the PDU inside the cabin can be provided.

C14 Input Power Socket Module
This module is recommended when the socket internal connections are not preffered to be inside the fan unit. The power socket module is equipped with perforated windows that allow cable only, C14 socket only or Combo C14 socket connections. In this way, it can be easily adapted to future needs.

Combo Input Module
In addition to the C14 power connection, this module also includes an On/Off switch and an internal fuse to physically cut off the electricity. While protecting the unit in case of circuit overload, the manual on-off option for electricity is also provided. Digital Fan Modules do not contain a physical power cut-off switch. Therefore, it is recommended to use it together with these modules.

Combo Power Module
With all the advantages of the combo socket, it is recommended to be used in cases where internal connections are not required to be located within the fan unit. The power socket module is equipped with perforated windows that allow: cable only, C14 socket only or Combo C14 socket connections. In this way, it can be easily adapted to future needs.



19” LED Lighting Modules
General Features

19” Rack Cabinet Lighting Modules operate with 12 Volt DC voltage.

In addition to standard white lighting color different colors options are also available. With its different optional features, it can be customized to the needs and requests of users.

Control Switch: Motion Sensor or Door Switch modules have a 3-position control switch on the front with 0= OFF, I=Constant ON and A= Automatic mode (Sentive to either door movement or motion)

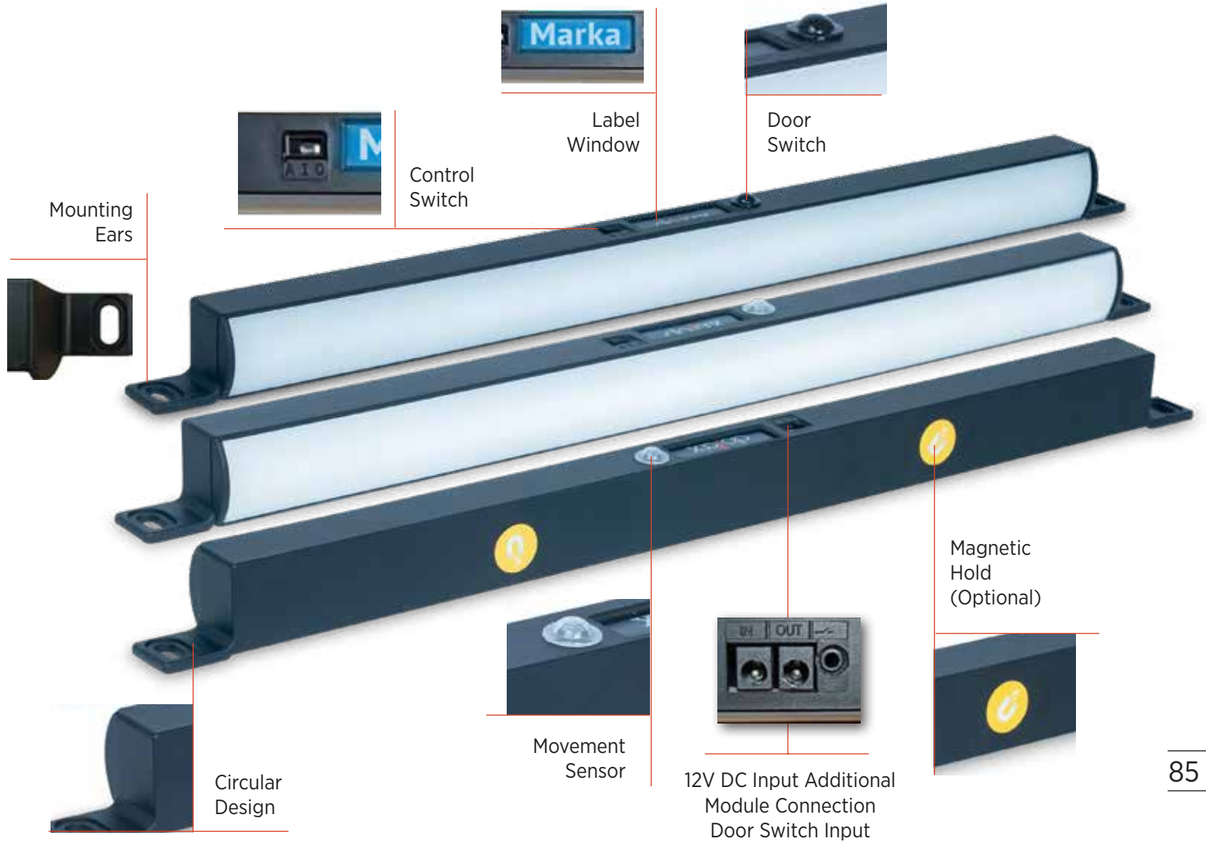
Label Window: The constantly illuminated backlight allows the brand or any information label to be easily seen with the label window.

Magnetic Hold: Magnetic Hold Option enables the product to be used on a metal surface in other ways than just 19” rack mounting. They can be mobile by sticking to the surface with the magnetic holders added into the product. These models have a label on the surface which shows where the magnets are.

Renk Seçenekleri: In addition to standard fixed Options lighting, two color lighting options are also available. When no motion is detected, it illuminates the background with a different color (standard color is blue, other colors are optional), and when switched to normal lighting mode, it illuminates in a different color (standard color is white, other colors are optional). In the model with motion sensor, the lighting turns off or the background lighting is activated again approximately 30 seconds after motion detection* ends. In the cabinets with glass doors, motion is not detected behind the glass.

** If the control switch is set to ON mode in the standard model, If movement is detected in the model with motion sensor, If key door movement is detected in the door key model.*

19” LED Lighting Modules
General Features



Motion Sensor
19” LED Modules

General Features

It has a single or dual color lighting option. The motion detection sensor located on the front detects movement from approximately 1.5 m, and the light remains on during the movement. It goes into standby mode approximately 30 seconds after motion detection is finished.

In Racks with glass doors, it does not detect movement behind the glass. This way, unnecessary movement detection is prevented.

Additional module can be installed.

- RAL9005 1/2U Fire Retardant Plastic Body
- 19” 1/2U Rack Mountable
- Easy usage on desired area with the magnetic hold option
- Lighting at more than one point with additional module controlled from the main center
- Paintable body
- Illuminated Brand / Information Area
- Dual color options
- Color option in second color (White / Blue-Red-Green)

Technical Features

Body Type	Plastic
Operating Voltage	12 V DC
Max. Power	6 Watts
Power Connection	Power connector socket
Light Color (Kelvin)	6500 (White)
Dimensions	19” – 1/2U

Certificates

CE · OHSAS 18001 · ISO 9001 · RoHS 2002/95/EC · YERLİ ÜRETİM · TÜRK PATENT

Door Switch
19” LED Modules

General Features

Has a single color or dual color lighting option. The motion sensor window is covered with a **black cover**. Door switch connection socket is on the back of the product.

When the doorswitch is activated by opening the door, the light turns on and illuminates until the door is closed again.

Additional modules can also be installed on this model.

- RAL9005 1/2U Fire Retardant Plastic Body
- 19” 1/2U Rack Mountable
- Easy usage on desired area with with the magnetic hold option
- Lighting at more than one point with additional module controlled from the main center
- Paintable body
- Illuminated Brand / Information Area

Technical Features

Body Type	Plastic
Operating Voltage	12 V DC
Max. Power	6 Watts
Power Connection	Power connector socket
Light Color (Kelvin)	6500 (White)
Dimensions	19” – 1/2U

Certificates

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19” LED Modules
Additional Module

General Features

With the additional module, which can be used in models with motion sensors or door switches, lighting can be duplicated after motion detection in the main module.

There are no control switches, sensor slots or label windows on the front of the additional modules. There are two power inputs on the back of the product for main module - additional module connection and are supplied with a cable to enable the connection.

Other features are the same as the the main modules, **but there is no two color option or the option to choose a second color**. Five additional modules can be connected to the main modules

Technical Features

Body Type	Plastic
Operating Voltage	12 V DC
Max. Power	6 Watts
Power Connection	Power connector socket
Light Color (Kelvin)	6500 (White)
Dimensions	19” – 1/2U

Certificates

CE · OHSAS 18001 · ISO 9001 · RoHS 2002/95/EC · YERLİ ÜRETİM · TÜRK PATENT

LED Lighting Modules

Header Type LED Modules
General Features

- **Custom design option**
- **Module length on demand**
- **Standart color: Black**

Header Type Light Modules are used to illuminate the corridor of datacenters where rack cabinets are lined up.

The Built-In type (forward lighting) model is installed in the area on the pediment and only the lighting surface is visible.

In the hanging type model, the lighting is directed towards the ground and is hung on the pediment surface.

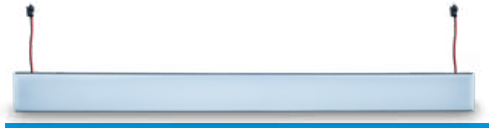
Color options available.

Both types can operate with 12 VDC, 24 VDC or 48 VDC voltage and must be connected to a power unit that can supply appropriate for the selected voltage.

Sizes are available for 600mm or 800mm racks. 300 mm. models are also available which are suitable for 300. mm wide cooling units mounted between rack cabinets.

These modules can be easily connected to each other with the socketed mounting cables on both sides with easy and short installation without the need for additional work.

Hanging
Header Lighting



General Features

1. Hanging without Gap

Mounting screw holes are available for mounting to the pediment with zero gap. Holes of the same size should be opened on the pediment. It can be mounted by screwing from the back of the pediment. Cable passage holes should also be opened on the pediment

2. Hanging with Mounting Button

Bu montaj şeklinde ürün üstüne iki adet montaj In this mounting method, two mounting buttons are on the back side of the product. Pear-shaped holes suitable for the buttons spacing should be opened on the pediment. It is mounted by inserting it into these holes from top to bottom, and no tools are required for assembly. Since the connection cables will pass through the remaining space, there is no need for an additional hole. Since it provides very fast installation, it can be put into operation in a short time.

Technical Features

Body Type	Aluminum
Operating Voltage	12 V DC /24 V DC/48 V DC
Max. Power	8 - 12 Watts
Power Connection	Separate input-output wired socket
Light Color (Kelvin)	3500-5000-6500 (White)
Dimensions	Optional

Certificates

CE · OHSAS 18001 · ISO 9001 · RoHS 2002/95/EC · YERLİ ÜRETİM · TÜRK PATENT

Built in
Header Lighting

General Features

It has an aluminum body and is mostly produced in natural color (gray). Since the assembly is done in a tight fit manner, no additional fixing is required. A mounting space cut to the appropriate size for the module to be used is sufficient.

Technical Features

Body Type	Aluminum
Operating Voltage	12 V DC /24 V DC/48 V DC
Max. Power	8 - 12 Watts
Power Connection	Separate input-output wired socket
Light Color (Kelvin)	3500-5000-6500 (White)
Dimensions	Optional

Certificates

CE · OHSAS 18001 · ISO 9001 · RoHS 2002/95/EC · YERLİ ÜRETİM · TÜRK PATENT

Stick Aluminum LED Lighting
General Features

- Custom design option
- 10-25-33 cm length options
- Aluminum natural color body
- Easy usage on desired area with with the magnetic hold
- Paintable body
- ON/OFF or door switch options

Optional Features

1. DC Supply with protection
2. ON/OFF
3. DC Supply
4. Door Switch Input
5. Magnetic Clips
6. Steel Clips

LED Lighting Modules

Stick Aluminum
LED Lighting

General Features

With this model, length can go up 3 meters whi - le. It has an aluminum body and is in natural colour (grey). It comes with standard WHITE color illumination while other color options are also possible. Product power supply input can be made directly via cable or socket.

On/Off switch or Door Switch can be added to the product upon request. While the mounting screw holes on the plastic cover on both sides of the product can be used for mounting, it is also possible to use it with steel clips or mag- netic holders for easy assembly.

Optionally, spiral power connection cable can also be used.

Technical Features

Body Type	Aluminum
Operating Voltage	12 V DC /24 V DC/48 V DC
Max. Power	4 - 8 Watts
Power Connection	Separate input-output wired socket
Light Color (Kelvin)	3500-5000-6500 (White)
Dimensions	Optional

Certificates

Custom LED Lighting
Waterproof LED Lighting Unit

- Easy assembly with steel clip
- Low load and easy transport with light plastic body
- Preventing damage to the surfaces in contact with the main body with a rounded corner design
- Eye- friendly illumination with 3000K - 6500K 12 W
- Protection from electric shocks with 24 V DC operating voltage, high work safety
- Preventing LED damage as a result of incorrect connection with polarizer protection
- Easy sequential connection with double sided cable

LED Lighting Modules

Custom LED Lighting
Waterproof LED Lighting Unit

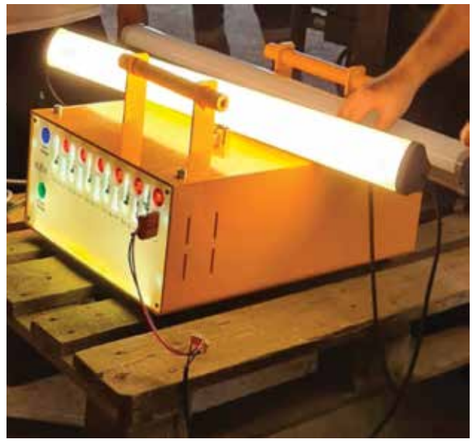
General Features

Waterproof LED Lighting System for Harsh Environments.

It has been specially developed to provide ambient lighting in harsh working conditions.

Our product group, which we have developed in line with the demands from the shipyards, prioritizes work safety with 24 V AC/DC operating voltage, provides functionality by being able to be transported by forklift,and with the add-on Lighting unit structure, it gave the opportunity to create a series using a single power unit.

Also the design of the led module without sharp lines minimized the damage to the environment in yacht modification.



Technical Features

Dimension	50 cm. 100 cm.
Weight	630 gr. 930 gr.
Light	6500 K
Operating Voltage	24VDC
Working Power	12 W

Certificates

CE · OHSAS 18001 · ISO 9001 CERTIFIED · RoHS 2002/95/EC · YERLİ ÜRETİM · TÜRK PATENT

Specific LED Lighting

SMARTLIGHT

The Smart Light Management Module is a next-generation smart system component that allows remote monitoring, manual control, and management of lighting and temperature in IT environments.

In sensitive computing environments such as data centers, system rooms, UPS rooms, etc., the system includes functions such as:

- Lighting control when stationary or in motion,
- Visual alerts for remote monitoring of temperature status,
- Additional cooling when the set temperature is exceeded,
- Activation of hot air exhaust units when needed,
- Sending information to the monitoring center in unexpected conditions.

Thanks to these features, in addition to the lighting control in the system, it enables any malfunction caused by heat to be detected in advance and prevented or intervened immediately. It provides advantages by **providing system security, energy saving, and early warning options.**

It can be easily installed anywhere thanks to its small size. The cable connections are on one side and provide extremely fast and easy installation thanks to the special connection sockets. There are LED lights on the module that show the operating status, and an LCD screen that shows the internal temperature and set temperature values.

LED Lighting Modules

Smart LIGHT
LED Lighting Module

General Features

- Fire retardant plastic body,
- Temperature setting buttons (adjustable between 18-35 °C with 1 °C sensitivity),
- On/Off button with standby mode,
- Sensor with 0.1 °C accuracy
- LCD screen displaying the set temperature,environment temperature and flash alerts in case of alarm status,
- On the front face: LED indicators showing active lighting, power input, and features activated in unusual situations,
- On the top panel there is power input, white, red, and blue lighting inputs, air conditioning contact, alarm output contact, and socket connections for warning devices such as sirens
- These sockets allows easy connection without screws and quick detachment with their locking design
- Easy installation with mounting ears on both sides.
- Can be manufactured in different colors.

Technical Features

Dimensions	200 x 95 x 50 mm.
Weight	320 gr.
Operating Voltage	100 - 240 VAC
Warranty Period	2 yıl
Certification	CE

Certificates

dorax®

For more information about Dorax products, you can reach out to uss via WhatsApp at **+90 533 895 19 66** or email us at **info@doraks.com.tr** or visit our website **doraks.com.tr**

Soon you can place your order directly at **www.doraxshop.com.**

+90 533 895 19 66

AHK Deutsch-Türkische Industrie- und Handelskammer
Alman-Türk Ticaret ve Sanayi Odası

DDN: 08-007-2024-01-B

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