EdgeNode

Micro Data Centre Solution

EdgeNode | Micro Data Centre

Always evolving

We continuously innovate and optimize our solutions to provide best-in-class energy efficiency and a wide range of flexible configurations. With our cutting-edge solutions, we offer unparalleled performance and reliability, making us the ultimate choice for your data center infrastructure projects.

Solution Benefits

Secured Protection

• IP55 rated IT environment, excellent dust resistance
  and noise reduction capabilities, Anti-condensation
  design, ensure quiet, secure and stable operation.
• Smart 3in1(PIN/Finger/RFID) Door access system,
  prevent unauthorized entry.
• Real-time equipment status monitoring and alarm,
  avoid delayed response.

Energy Efficiency

• Various efficient inverter precision air conditioning
  options provide energy-saving solutions.
• IP55 rated IT environment, allowing internal
  deployment of fire system, more cost saving.
• Factory prefab & plug-and-play design enable easy
  deployment and relocation.

Smart Monitoring

• Full sensor communication, all-in-one real time
  monitoring and management center, minimizing
  downtime.
• Support remote centralized management and
  constant monitoring, enhancing operational
  efficiency and flexibility.
• Upgraded software interface, more suitable for
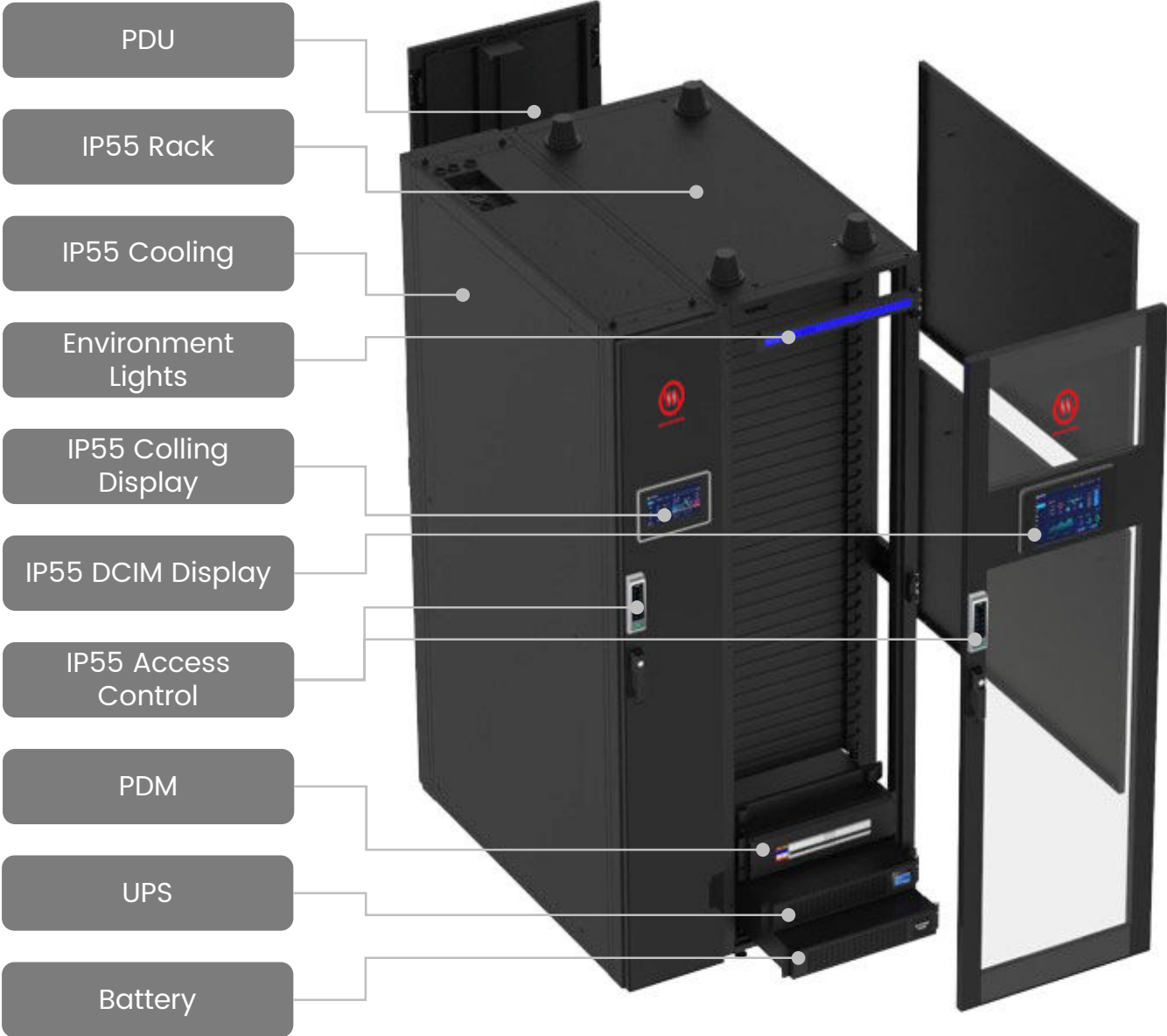 operation insights.

High Flexibility

• LEGO-style modular design allows for easy
  customization and expansion.
• Factory prefab and plug-and-play design enable
  easy deployment and relocation, reducing setup
  time and effort.

Efficiency Prefabricated

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Continuous improvement platform

We continuously exploring the best combinations between the various modules to optimize our Micro Data Centers and provide the most effective configuration. Each module is a crucial and unique component that plays a vital role in achieving our goals.

- PDU
- IP55 Rack
- IP55 Cooling
- Environment Lights
- IP55 Colling Display
- IP55 DCIM Display
- IP55 Access Control
- PDM
- UPS
- Battery
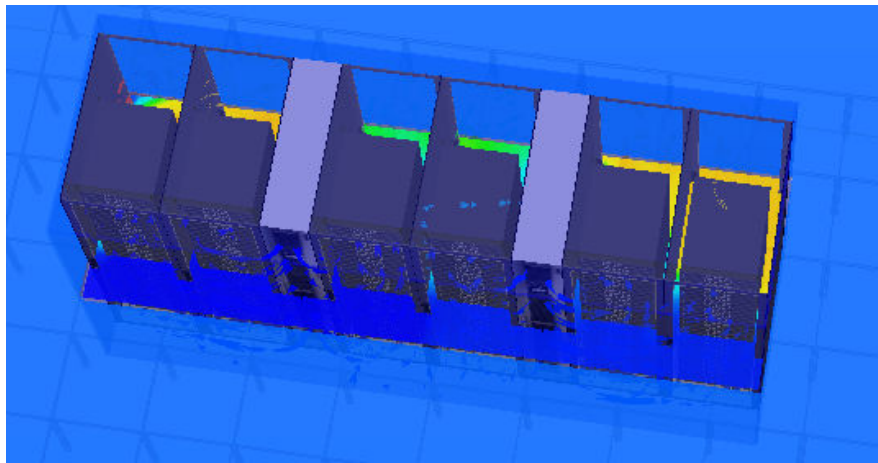
Reliability by design

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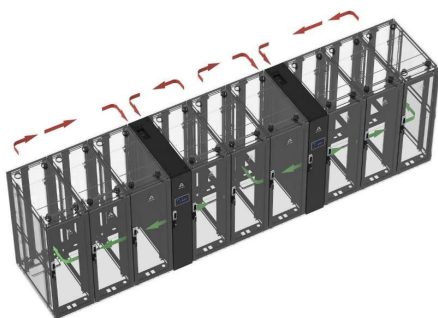
Highly efficient cooling

Optimized PUE

Energy efficiency has always been a top priority in our data center design and operations. Our cutting-edge energy-saving technologies and equipment and continually optimized energy management strategy, resulting in a substantial reduction in the PUE value.

Efficient Thermal Management System

Maximizing efficiency with various inverter precision air conditioning with IP55 rated built-in cold-hot aisle sealed cabinet.

Efficient Deployment & Relocation

Factory prefabrication, high integration, plug-and-play design enables quick delivery and deployment.

Lego style modular design, easy to expansion step by step.

Reliability by design

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Highly reliable by design

From internal power systems to external physical monitoring, we continuously innovate and optimize our Micro Data Center to provide the most comprehensive protection, making us the safest choice for your data management.

- **Power Supply Protection**
  Online double-conversion UPS provides reliable power supply protection and effectively resists risk of sudden power cut.

- **Environmental Protection**
  Stable temperature, humidity of IT environment provided by our various types of precision cooling, ensure your business continuous operation.

- **Real-time Monitoring**
  Smart monitoring system fully communicate with UPS, cooling, power, and all types of sensor, integration with access control system, provided real-time data at all times.

- **Enhanced Physical Protection**
  IP55 rated cabinets equipped with Intelligent 3 in1 access control system can effectively prevent unauthorized entry including invasion, water and dust.

- **Disaster Protection**
  Early fire detection system and Fire system combined with graphics processing technology to maximize the protection of your equipment from loss at the early stage of disaster.

Reliability by design

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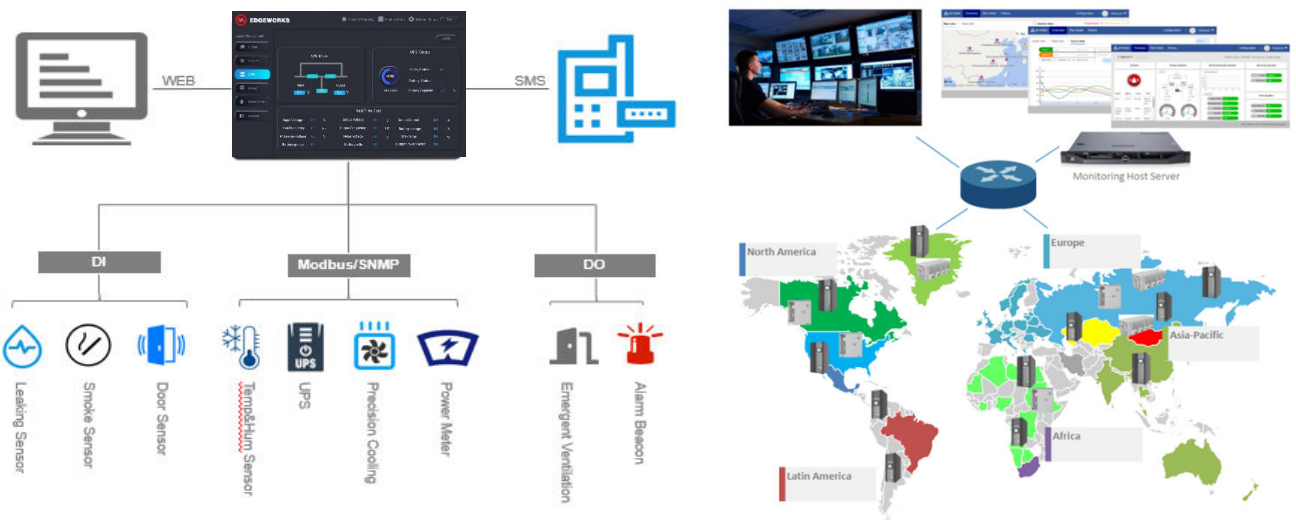
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Smart monitoring

Smart monitoring system provide more user-friendly interface, comprehensive local monitoring, and supports various protocols for easy integration with your existing BMS system. It allows for remote centralized management and constant monitoring of device status, ensuring the business continuous operation.

Reliability by design

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Flexible designs

All kinds of key design aspects, including IT-Rack, precision cooling, UPS, PDU, Battery, Fire system, Monitoring system, it can be configured by yourself. Including but not limited to capacity configuration, redundancy configuration, software modifications, etc.

Various Types Cooling

2.5-5.5kW Top mount cooling system
3.9-12kW Rack mount cooling system
5.6-10.8kW Inrow packaged cooling system
5.6-90kW Inrow split cooling system

IP55 Rack

Two different widths(600/800mm) and three different heights(24U,33U and 42U)

Rack Mount / Modular UPS

8-60kVA rack UPS
60-200kVA modular UPS rack mount
250-600kVA modular UPS floor mount

48VDC Modular Rectifier

48VDC rectifier, with rectifier module / Solar module

VRLA / Lithium Batteries

Compatible to in-rack design. High performance, high efficiency

Basic / Smart PDU

Max 42bits / 63A input current, With environmental monitoring, power monitoring, control, management, lightning protection and other functions

Additional Options

Video Surveillance System

Rack mount fire System

Early Fire Detection System

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Scalable infrastructure.

Our solutions enable individually scalable combinations of all components like IT racks, cooling, power distribution, monitoring and security. flexible and highly standardized concepts can offer the best individual solution for every customer at any stage of the business. You can plan and invest your IT assets step by step while your business grows.

BEGINNING	EXPANSION	FUTURE

Various predefined configurations, suitable for any of your applications.

Packaged Cooling	Split Cooling	Split Cooling	DX/Chilled Water
3k – 6k MDC fully integrated with closed rack, package cooling, UPS, battery, power distribution, security, monitoring and fire systems.	5k – 10k MDC fully integrated with closed rack, package cooling, UPS, battery, power distribution, security, monitoring and fire systems.	3k – 10k MDC fully integrated with closed rack, rack mount cooling, UPS, battery, power distribution, security, monitoring and fire systems.	6k – 20k MDC fully integrated with closed rack, split cooling, UPS, battery, power distribution, security, monitoring and fire systems.
No complex piping of remote condenser installation.	No complex piping of remote condenser installation.	Modular rack cooling flexible for rack oriented MDC plan.	Row cooling seamless integration with rack row and capacity expansion.

Reliability by design

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Technical Data | IEC Power
230V/1P/50~60Hz | 400/3P/50~60Hz

Product Model	EDW-03N	EDW-03W	EDW-06E	EDW-06M	EDW-06T	EDW-06F	EDW-06K	EDW-10S	EDW-10G	Configured
Space for IT-U	18U	19U	26U	27U	29U	35U	35U	35U	35U	<= 10 * 42U
Power for IT-KW	2.0	2.4	3.0	3.5	3.5	5.0	5.0	7.0	7.0	<= 15kW/Rack
Redundancy	N	N	N	N	N	N	N	N	N	N / N+1 / 2N
Width -mm	600	600	600	600	600	900	900	900	900	Per Definition
Depth -mm	1100	1100	1100	1200	1200	1200	1200	1200	1200	1200
Height -mm	1200	1590	2000	2000	2000	2000	2000	2000	2000	2000
Weight -kg	166	180	310	362	352	501	511	505	515	Per Definition
IP Level	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55
Input Power	220-240V/ 1P/50Hz	220-240V/ 1P/50Hz	220-240V/ 1P/50Hz	220-240V/ 1P/50Hz	220-240V/ 1P/50Hz	220-240V/ 1P/50Hz	220-240V/ 1P/50Hz	220-240V/ 1P/50Hz	220-240V/ 1P/50Hz	220-240V/ 1P/50Hz or 318-415V/ 3P/50-60Hz
Breaker Size	16A	32A	63A	63A	63A	63A	63A	63A	63A	Per Definition
Power Section										
UPS -kVA	3.0	6.0	6.0	6.0	6.0	6.0	6.0	10.0	10.0	3kVA - 200kVA
UPS Type	Rack	Rack	Rack	Rack	Rack	Rack	Rack	Rack	Rack	Rack / Modular
Standard Battery	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	<= 4hours backup time
Surge Protection	√	√	√	√	√	√	√	√	√	Per Definition
Power Panel	√	√	√	√	√	√	√	√	√	Per Definition
PDU	Basic 8 Slots	Basic 8 Slots	Basic 16 Slots	Basic 16 Slots	Basic 16 Slots	Basic 16 Slots	Basic 16 Slots	Basic 16 Slots	Basic 16 Slots	Basic / Smart(Opt.)
Cooling Section										
Cooling Type	Fan Ventilation	Packaged DX	Packaged DX	Package DX	Split DX	Split DX	Packaged DX	Split DX	Packaged DX	Packaged DX / Split DX / Chilled Water
Mount Type	Top	Top	Top	Rack	Rack	Row	Row	Row	Row	Row / Rack / Top
Capacity-kW	2.0	3.5	3.5	3.5	3.9	5.6	5.6	7.6	7.6	3.9-90kW
Emergency Ventilation	√	√	√	√	√	√	√	√	√	√
DCIM Section										
Local Display	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen
Remote Access	Web Access	Web Access	Web Access	Web Access	Web Access	Web Access	Web Access	Web Access	Web Access	Web Access / Email / SMS(Opt.)
Reporting Protocol	Modbus-TCP	Modbus-TCP	Modbus-TCP	Modbus-TCP	Modbus-TCP	Modbus-TCP	Modbus-TCP	Modbus-TCP	Modbus-TCP	Modbus-TCP / SNMP(Opt.)
UPS Mgmt.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cooling Mgmt.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Temp. & Hum. Sensor	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fire Sensor	Smoke	Smoke	Smoke	Smoke	Smoke	Smoke	Smoke	Smoke	Smoke	Smoke
Water Sensor	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Door Sensor	Front/Rear	Front/Rear	Front/Rear	Front/Rear	Front/Rear	Front/Rear	Front/Rear	Front/Rear	Front/Rear	Front / Rear
Security Section										
Access Control	RFID/Finger/PIN	RFID/Finger/PIN	RFID/Finger/PIN	RFID/Finger/PIN	RFID/Finger/PIN	RFID/Finger/PIN	RFID/Finger/PIN	RFID/Finger/PIN	RFID/Finger/PIN	RFID/Finger/PIN
Video Surveillance	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Fire Fighting Section										
Fire Extinguisher	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)
Early Detection	Vesda (Opt.)	Vesda (Opt.)	Vesda (Opt.)	Vesda (Opt.)	Vesda (Opt.)	Vesda (Opt.)	Vesda (Opt.)	Vesda (Opt.)	Vesda (Opt.)	Vesda (Opt.)

Notes:
- PDU can be customized with intelligent type and different sockets.
- Other configuration is accepted to customize per project requirements.

Reliability by design

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Technical Data | US Power
208V/2P/50~60Hz | 208V/3P/50~60Hz

Product Model	EDW-03N	EDW-03W	EDW-06E	EDW-06M	EDW-06T	EDW-06F	EDW-06K	EDW-10S	EDW-10G	Configured
Space for IT-U	18U	18U	25U	26U	28U	34U	34U	32U	32U	<= 10 * 42U
Power for IT-kW	2.0	2.4	3.0	3.5	3.5	5.0	5.0	7.0	7.0	<= 15kW/Rack
Redundancy	N	N	N	N	N	N	N	N	N	N / N+1 / 2N
Width -mm	600	600	600	600	600	900	900	900	900	Per Definition
Depth -mm	1100	1100	1100	1200	1200	1200	1200	1200	1200	1200
Height -mm	1200	1590	2000	2000	2000	2000	2000	2000	2000	2000
Weight -kg	166	180	310	362	352	501	511	505	515	Per Definition
IP Level	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55
Input Power	110-120V/ 1P/60Hz	208-240V/ 2P/60Hz	208-240V/ 2P/60Hz	208-240V/ 2P/60Hz	208-240V/ 2P/60Hz	208-240V/ 2P/60Hz	208-240V/ 2P/60Hz	208-240V/ 2P/60Hz	208-240V/ 2P/60Hz	208-240V/ 2P/60Hz or 200-230V/ 3P/50-60Hz
Breaker Size	16A	32A	63A	63A	63A	63A	63A	63A	63A	Per Definition
Power Section										
UPS -kVA	3.0	6.0	6.0	6.0	6.0	6.0	6.0	10.0	10.0	3kVA - 200kVA
UPS Type	Rack	Rack	Rack	Rack	Rack	Rack	Rack	Rack	Rack	Rack / Modular
Standard Battery	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	<= 4hours backup time
Surge Protection	√	√	√	√	√	√	√	√	√	Per Definition
Power Panel	√	√	√	√	√	√	√	√	√	Per Definition
PDU	Basic 8 Slots	Basic 8 Slots	Basic 16 Slots	Basic 16 Slots	Basic 16 Slots	Basic 16 Slots	Basic 16 Slots	Basic 16 Slots	Basic 16 Slots	Basic / Smart(Opt.)
Cooling Section										
Cooling Type	Fan Ventilation	Packaged DX	Packaged DX	Package DX	Split DX	Split DX	Packaged DX	Split DX	Packaged DX	Packaged DX / Split DX / Chilled Water
Mount Type	Top	Top	Top	Rack	Rack	Row	Row	Row	Row	Row / Rack / Top
Capacity-kW	2.0	3.5	3.5	3.5	3.9	5.6	5.6	7.6	7.6	3.9-90kW
Emergency Ventilation	√	√	√	√	√	√	√	√	√	√
DCIM Section										
Local Display	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen
Remote Access	Web Access	Web Access	Web Access	Web Access	Web Access	Web Access	Web Access	Web Access	Web Access	Web Access / Email / SMS(Opt.)
Reporting Protocol	Modbus-TCP	Modbus-TCP	Modbus-TCP	Modbus-TCP	Modbus-TCP	Modbus-TCP	Modbus-TCP	Modbus-TCP	Modbus-TCP	Modbus-TCP / SNMP(Opt.)
UPS Mgmt.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cooling Mgmt.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Temp. & Hum. Sensor	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fire Sensor	Smoke	Smoke	Smoke	Smoke	Smoke	Smoke	Smoke	Smoke	Smoke	Smoke
Water Sensor	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Door Sensor	Front/Rear	Front/Rear	Front/Rear	Front/Rear	Front/Rear	Front/Rear	Front/Rear	Front/Rear	Front/Rear	Front / Rear
Security Section										
Access Control	RFID/Finger/PIN	RFID/Finger/PIN	RFID/Finger/PIN	RFID/Finger/PIN	RFID/Finger/PIN	RFID/Finger/PIN	RFID/Finger/PIN	RFID/Finger/PIN	RFID/Finger/PIN	RFID/Finger/PIN
Video Surveillance	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Fire Fighting Section										
Fire Extinguisher	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)	FM200 Rack Module (Opt.)
Early Detection	Vesda (Opt.)	Vesda (Opt.)	Vesda (Opt.)	Vesda (Opt.)	Vesda (Opt.)	Vesda (Opt.)	Vesda (Opt.)	Vesda (Opt.)	Vesda (Opt.)	Vesda (Opt.)

Notes:
- PDU can be customized with intelligent type and different sockets.
- Other configuration is accepted to customize per project requirements.

Reliability by design

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At Edgeworks, we are at the forefront of this transformation, providing cutting-edge solutions to meet the expanding needs of businesses in this thriving region. Our state-of-the-art technology and multi-site edge presence to handle the increasing demands of edge computing, ensuring seamless connectivity, superior performance, and scalable infrastructure.

Contact us

EDGEWORKS

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