

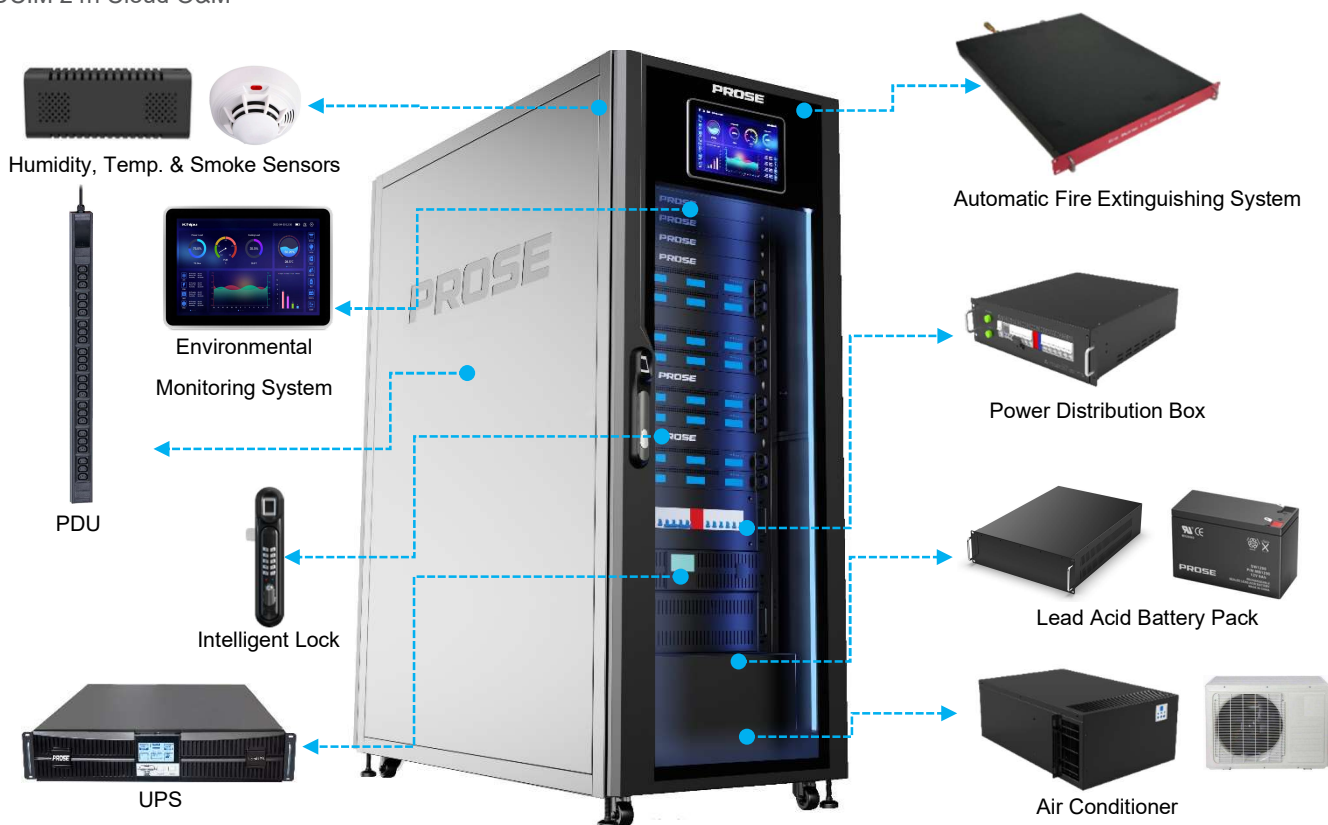
## Product Introduction

Traditional miniaturized data centers often suffer from high maintenance costs, extended construction periods, and limited real-time visibility into system performance. To address these challenges, PROSE developed the innovative Smart Micro Data Center. Designed to support the evolving demands of edge computing, the PROSE Smart Micro Data Center features a modular architecture that enables cost-effective, rapid deployment, allowing customers to achieve fast installation and immediate operational readiness.

The solution integrates cabinets, power distribution, cooling, and cabling systems, while ensuring continuous power supply to prevent data loss. It offers remote monitoring via TCP/IP and Cloud App, providing customers with real-time insights into system performance. An integrated temperature and humidity monitoring system, along with an advanced air-cooling mechanism, maintains optimal operating conditions. Additionally, features such as facial and fingerprint recognition enhance data security.

## Main Feature

- Lower Investment by 25%
- Fast Installation - Only 2h
- Energy Saving 30%
- PUE Less Than 1.26
- System Emergency Response Protection
- Biometrics Authentication
- Cascading Available for Rack
- Saving Room Space 50%
- Quiet Operation - Less Than 55dB
- DCIM 24h Cloud O&M



## System Specification

1 pcs of racks can be put in cascade configuration.

| Parameter                  | Specification                                                                         |
|----------------------------|---------------------------------------------------------------------------------------|
| Height Unit (customizable) | 27U                                                                                   |
| Cabinet Size (mm)          | 600 (W) x 800 (D) x 1.390 (Total Height); 600 (W) x 800 (D) x 1.340(With out Caster)  |
| Weight                     | About 150kg                                                                           |
| Static Load                | Up to 2200kg                                                                          |
| Color                      | Black                                                                                 |
| Structure Composition      | Welding framework, cabinet seal design as a whole                                     |
| Meet Standard              | ANSI/EIA RS-310-D, IEC297-2, DIN41491, DIN41494, GB/T3047.2-92                        |
| IP Level                   | IP5X                                                                                  |
| Display Panel              | 10.1" Touch Panel LCD                                                                 |
| Display Languages          | English / Chinese                                                                     |
| LED Lighting               | Bicolor (Red & Blue)                                                                  |
| Front Door                 | Toughened glass door with mechanical lock or fingerprint lock (Support face detector) |
| Rear Door                  | Sheet metal door                                                                      |
| Safety Standard            | RoHS                                                                                  |

## Power Distribution Box



| No. | Parameter                  | Specification                                             |
|-----|----------------------------|-----------------------------------------------------------|
| 1   | Input Rated Voltage (V)    | 230VAC (176~264VAC)                                       |
| 2   | Input Frequency (HZ)       | 46~63                                                     |
| 2   | Input Rated Current (A)    | 50A                                                       |
| 3   | Input Switch               | 50A/1P                                                    |
| 4   | Output Switch              | 3*32A/1P+C32A/2P+D20A/1P+16A/1P*4                         |
| 5   | Lightning Protection Level | Class C lightning protection                              |
| 6   | Dimensions (mm)            | W*D*H, 483*500*3U                                         |
| 7   | Color                      | Black, off-white or according to customer's specification |
| 8   | Ways To Enter and Exit     | Top-in and top-out or according to customer's designation |
| 9   | Installation               | 19" Rack mounted                                          |
| 10  | Cooling                    | Natural cooling                                           |

## UPS



| Parameter                         | RT6K11LB                                                                                                                                                                                                              |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Rating (VA/W)               | 6kVA/6kW                                                                                                                                                                                                              |
| Input Type                        | L+N+PE 1Phase                                                                                                                                                                                                         |
| Input Voltage Range               | 110~288V,176~288V for full load,Derated operation from 110V to 175V                                                                                                                                                   |
| Input Frequency                   | 40-70HZ                                                                                                                                                                                                               |
| Input Power Factor                | ≥0.99                                                                                                                                                                                                                 |
| Output Voltage Range              | 220/230/240VAC                                                                                                                                                                                                        |
| Output Frequency                  | Mains mode: follow mains frequency, Battery mode: 50/60Hz±0.1%                                                                                                                                                        |
| Output Waveform                   | Sine Wave                                                                                                                                                                                                             |
| Output Power Factor               | 1                                                                                                                                                                                                                     |
| Overload Capacity (Inverter Mode) | 110% load transfers to<br>Bypass mode after 60 minutes<br>130% load transfers to<br>Bypass mode after 1 minute<br>150% load transfers to<br>Bypass mode after 0.5 minute<br>and shutdown the output after<br>1 minute |
| Crest Factor                      | 3:1                                                                                                                                                                                                                   |
| Efficiency                        | Normal mode 94.5%; ECO mode 99%                                                                                                                                                                                       |
| Battery Type                      | /                                                                                                                                                                                                                     |
| Battery Quantity                  |                                                                                                                                                                                                                       |
| DC Voltage                        | Default 192VDC,192~288VDC can be adjust                                                                                                                                                                               |
| Communication Interface           | RS232(standard), RS485(optional), SNMP(optional), USB(optional)                                                                                                                                                       |
| Optional Accessories              | SNMP card, AS400 dry contact card, USB, RS485, EPO, External battery temperature, RJ45 surge protection, BMS                                                                                                          |
| Storage Temperature               | 0-70°C                                                                                                                                                                                                                |
| Operating Temperature             | 0-40°C(Derating above 40°C)                                                                                                                                                                                           |
| Operating Humidity                | 0-95% RH                                                                                                                                                                                                              |
| Dimensions mm (W x D x H)         | 438*644*86(2U)                                                                                                                                                                                                        |
| Net Weight(kg)                    | 16                                                                                                                                                                                                                    |

## Battery Pack



| Cabinet Power | Backup Time | Battery Type            | Battery pack size | Quantity |
|---------------|-------------|-------------------------|-------------------|----------|
| 6kVA          | 8 mins      | DC12V 9AH 152*65*95*100 | 483*620*130       | 16PCS    |

## Environmental Monitoring System



| Parameter                 | EV10G20-LSBG-01                       |
|---------------------------|---------------------------------------|
| Core Function             |                                       |
| CPU                       | Cortex-A17 Frequency:1.8GHZ           |
| RAM                       | 2GB (default) Optional 1G/4GB         |
| Internal Storage          | 8G eMMC(default) Optional 16G/32G/64G |
| GPU                       | ARM Mali-T764                         |
| Storage Expansion         | Supports up to 128GB TF card          |
| Screen Size               | 10.1-inch IPS LCD                     |
| Resolution                | 800 × 1280 (WXGA)                     |
| Viewing Angle             | Full viewing angle IPS                |
| Touch Screen              | 3-point capacitive touch              |
| Brightness                | Typ: 450 cd/m <sup>2</sup>            |
| LCD Display Power         | 60mW max                              |
| Camera                    | None                                  |
| Face Recognition          | None                                  |
| Dimensions (W×H×D)        | 260.8 × 174.8 × 38.9 mm               |
| Connectivity & Interfaces |                                       |
| RS232                     | 2 ports                               |
| RS485                     | 2 ports (Modbus supported)            |

|                                            |                                             |
|--------------------------------------------|---------------------------------------------|
| DI Port                                    | 2 channels                                  |
| DO Port                                    | 2 Dry contact                               |
| Wi-Fi                                      | Standard: 2.4G,                             |
| Bluetooth                                  | Standard: BT4.2                             |
| 4G Module                                  | None                                        |
| Ethernet                                   | 1 × 10/100Mbps RJ45 (DHCP default)          |
| HDMI Output                                | None                                        |
| Audio Port                                 | None                                        |
| TF Card Slot                               | 1 slot                                      |
| SIM Card Slot                              | 1 slot                                      |
| USB Host                                   | 3 ports                                     |
| USB OTG                                    | 1 port (for firmware burning and debugging) |
| Debug Port                                 | Micro-USB*1                                 |
| Reset                                      | None                                        |
| Power Input                                | 3-pin pluggable terminal block              |
| Voltage/Current                            | DC 12V ±0.5V / 3A                           |
| Environmental & Operational Specifications |                                             |
| Operating System                           | Android 5.1                                 |
| Operating Temperature                      | -10°C to 60°C                               |
| Operating Humidity                         | < 90%RH                                     |
| Storage Temperature                        | -20°C to 70°C                               |
| MTBF                                       | >=100000H                                   |
| Net Weight                                 | 2.5kg                                       |

## Air Conditioning



| Parameter                     | AC-J1211-12 |
|-------------------------------|-------------|
| Cooling Capacity (KW)         | 4           |
| Sensible Heat Ratio (SHR)     | 0.97        |
| Machine Air Volume (m³/h)     | 850         |
| Energy Efficiency Ratio (EER) | 3.1         |

|                                            |                                              |
|--------------------------------------------|----------------------------------------------|
| Compressor QTY                             | 1                                            |
| Compressor Type                            | Single rotor                                 |
| Fans Type                                  | EC centrifugal fan                           |
| Expansion Valve Type                       | Electronic expansion valve                   |
| Air Supply Mode                            | Upper, left, right and three side air supply |
| Evaporator                                 | Copper pipe+ Hydrophilic fin                 |
| Refrigerant                                | R410A/0.76kg                                 |
| Unit Standard Heating (W)                  | 500                                          |
| Power Parameter                            | 220V/50Hz                                    |
| Electric Power Supplying Parameters FLA(A) | 9                                            |
| Recommended Air Switch Model               | 16A                                          |
| Self-draining Pipe (mm)                    | Inner p14                                    |
| Strong-Draining Pipe (mm)                  | Inner p5/Outer p8                            |
| Refrigerant Air Pipe (mm)                  | 9.52                                         |
| Refrigerant Fluid Pipe (mm)                | 6                                            |
| Indoor Unit Dimensions (mm)                | 440W x 740D x 220H (5U)                      |
| Indoor Unit Weight (kg)                    | 27                                           |
| Outdoor Unit Dimensions (mm)               | 940 x 420 x 640                              |
| Outdoor Unit Weight (kg)                   | 31                                           |
| Copper Pipes and Cables (Accessory)        | 5m                                           |
| Operating Temperature Range (°C)           | -20~45                                       |

## PDU (Power Distribution Unit)



| Item                | Specification       |
|---------------------|---------------------|
| Rated Current       | 13A                 |
| Rated Voltage       | 176~264VAC, 50/60Hz |
| Output Ports        | 6*UK13A             |
| Max Power           | 3KW                 |
| Outline Size (mm)   | 45Wx 45D x 483H     |
| Installation Method | Rack-mounted        |

## Integrated Door Lock



| Parameter                  | JM-32111                                                                        |
|----------------------------|---------------------------------------------------------------------------------|
| Communication Method       | RS485,9600bit/s                                                                 |
| Authentication Method      | Supports fingerprint recognition                                                |
|                            | authorized by system software through network Communication                     |
|                            | Supports IC card                                                                |
|                            | Supports password                                                               |
|                            | Not support face recognition                                                    |
| Mechanical Lock            | Supported                                                                       |
| Magnetic Lock              | Not Supported                                                                   |
| Dry Contact                | Not Supported                                                                   |
| Fingerprint Capacity       | 500 pieces (expandable to 5,000 pieces)                                         |
| User Capacity              | 512 users                                                                       |
| Event Log                  | 1,120 entries                                                                   |
| Mechanical Key             | European standard lock cylinder, false opening rate $\leq 1/250,000$            |
| Power Supply Voltage       | 10.8~13.2VDC                                                                    |
| Working Current            | Static standby: <250mA                                                          |
|                            | Dynamic Electronically Controlled Unlocking:<br><500mA                          |
| Output Function            | Door contact input, lock magnet output, alarm OC output, status indicator light |
| Protection Ratin           | IP65                                                                            |
| Operating Temperature      | -20°C~+70°C (typical industrial environment)                                    |
| Storage Temperature        | -30°C~+70°C                                                                     |
| Operating/Storage Humidity | 20~90%RH                                                                        |
| Service life               | Above 500,000 times                                                             |

## Automatic Fire Suppression System



| Parameter                         | AFSS-NONPRESS-1U                              |
|-----------------------------------|-----------------------------------------------|
| Storage of Container              | 3kg                                           |
| Glass Bulb Activation Temperature | 68°C                                          |
| Electrical Activation Conditions  | DC5--24V, ≤300mA                              |
| Storage Pressure(20°C)            | None                                          |
| Class A Fire Protection Coverage  | 3.45m³                                        |
| Class B Fire Protection Coverage  | 4.47m³                                        |
| Operating Temperature             | 0 ~ 50 °C                                     |
| Operating Humidity                | 5% ~ 95% RH non-condensing                    |
| Storage Temperature               | -40-70°C                                      |
| Material                          | Aluminum anodic oxidation treatment for cover |
| Extinguishing Agent               | Fk5112 (Perfluorinated hexanone).             |
| RoHS                              | Yes                                           |
| Net Weight                        | 10kg                                          |

## Product Configuration

| PN                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Picture |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| MDC-A121-8111-2151-1171 | <p>Single Cabinet PROSE MDC:</p> <ul style="list-style-type: none"> <li>1 set Cabinet 27U: 600mm x 800mm x 1.390mm (with Caster)</li> <li>1 set UPS capacity is 6KVA 1-phase</li> <li>8-minute Battery Pack</li> <li>1 set Panel Distribution Box 1 Phase</li> <li>1 set Precision Air Cooling 3.5 KW</li> <li>1 pc Smoke Sensor</li> <li>1 pc Temperature &amp; Humidity Sensor</li> <li>1 pc PDU 6 outlet PDU, 13A, 6*UK13A</li> <li>1 pc Password, Fingerprint, IC card lock</li> <li>1 pc Automatic Fire Extinguishing Device</li> <li>1 set Master Environmental Monitoring System bundling with Touch Panel LCD for Dashboard, E-mail</li> </ul> |         |

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