

## ANet-2E8S1 Smart IoT Gateway

——Embedded Linux platform, high performance, low power consumption, real-time monitoring, Convenient management



### Hardware excellence

- Core optimization makes industrial-grade ARM Cortex-A7 more powerful
- The whole machine passes the electromagnetic compatibility test level 4 test
- All communication terminals pass the 2kV power frequency withstand voltage test
- double wide voltage (DC / AC 85V ~ 265V, DC 12V ~ 36V) reverse connection protection
- SD card +USB2.0 dual expandable plug and play storage media

### Flexible and convenient management

- Flexible and efficient reusable custom template library configuration mode
- Meter information point is automatically generated with one click
- Supports optional and fully-selected single-table structure forwarding data sets
- Supports efficient operation such as batch operation and step-filling

### Stable and efficient software

- Supports up to 256 metering devices
- Collecting information points total 10240
- Support local and remote configuration maintenance and real-time data monitoring
- Support multiple data centers to upload data using different protocols
- Support for breakpoint resuming, data XML format and AES encryption
- ANetOS system-level loss prevention protection algorithm provides error protection and automatic recovery capability for system operation, upgrade, update configuration, etc.

## product description

ANet-2E8S1 is a general-purpose intelligent communication management machine independently developed by Ankerui Electric Co., Ltd., which is suitable for national public offices, enterprises and institutions, community public institutions, residential commercial buildings, hotel catering and shopping malls, etc. The demand for various forms of electricity, gas, oil, cold, heat and other energy consumption and energy consumption measurement data.

The device can be used in the following application scenarios :

- ☀️ Power monitoring system
- ☀️ Power quality system
- ☀️ IoT system
- ☀️ Electricity demand side system
- ☀️ Building energy system
- ☀️ Remote prepaid system
- ☀️ Fire protection system
- ☀️ Intelligent building system

<b>Hardware</b>		
Technical Parameters	index	
power supply	Voltage	AC 85 V ~265 V 、 DC 12 V ~36 V (instruction when ordering)
	Device consumption	≤10W
processor	ARM32-bit Cortex-A7 core, 528MHz	
Onboard storage memory	256MB DDR3 memory + 256MB NAND Flash electronic hard disk	
Serial interface	8 optocoupler isolation RS485 + 1 RS232 (debug port)	
Ethernet interface	2-way 10/100M adaptive	
USB HOST	1 USB2.0 high speed interface, support hot plug and plug and play break point resume data storage	
SD card interface	Built-in 8GB SD Card electronic hard drive, support hot plug and plug and play break point resume data storage	
safety	Power frequency withstand voltage: AC 2kV 1min between communication terminal and auxiliary power supply	
	Insulation resistance: input and output to the chassis >100MΩ	
environment	Operating temperature: -20℃~+55℃ Storage transport temperature: -25℃~+70℃ Relative humidity : ≤95% (+25℃) Altitude≤2500m	
Electromagnetic compatibility test	IEC61000-4-2 ESD immunity test Class 4 IEC61000-4-4 Resistance test of electric fast transient pulse group Class 4 IEC61000-4-5 Surge (shock) immunity test Class 4 IEC61000-4-6 Conductive disturbance immunity of RF field induction Class 3	

## Software

Device Configuration	C/S architecture ANetCM configuration management software, open template management, plain text or excel engineering information management
Quick update	ANetOS provides 1-3 seconds of speed configuration updates and 3-7 seconds of firmware upgrades. If the error is configured incorrectly, the loss prevention algorithm automatically restores the device to the pre-update configuration state within 3-5 seconds. If you upgrade the problematic firmware, the loss prevention algorithm automatically restores the device to the pre-upgrade state within 5-10 seconds.
Console configuration	RS232 serial command line simple command set configuration management
communication method	Socket mode, support XML format compression upload, provide security requirements such as AES encryption and MD5 identity authentication
Data collection cycle	Second level custom configuration
Automatic upload cycle	Second, minute level custom configuration, depending on the upload protocol
Protocol support	In addition to the general standard protocol, it can support customized development of non-standard protocols on the acquisition side and the upper computer.
Timed with the host computer	Keeping in sync with the host computer in real time
Break point resume	Real-time detection, upload failure automatically saves pending data, supports plug-and-play and space expansion of external storage media, and automatically uploads data to be transmitted when network recovery
Historical stock store	Historical inventory storage according to the automatic upload cycle, Customizable history database data save days, expiration first in, first out, Storage space automatically overflows, near overflow value first in, first out
Protocol support	GBT19582-2008 (Modbus、ModbusTCP)、DL/T645-1997、DL/T645-2007、CJT188-2004、IEC60870-5 (101、103、104)、MQTT、Support HTTP(s)、XML、Json forwarding format etc.