

# Battery Monitoring Host | OM-BOD-A300D



The OM-BOD-A300D monitors up to 4 battery groups and 256 cells, featuring 2 SNS buses with 4 RJ45 ports, Ethernet, and RS485 interfaces. It integrates with Hall sensors, voltage transmitters, and cell modules for complete battery supervision. Key features include automatic device addressing, loop communication for uninterrupted monitoring, and active isolation of faulty modules. It supports AC/DC input, built-in web configuration, data storage for discharge tests and alarms, and Modbus/SNMP protocols for easy integration.

## Specifications

### System Specifications

Processor	Cortex-A7
Operating System	Embedded Linux
Memory	1 GB
Storage	8 GB

### Communication Interfaces

Upstream Interfaces	1 x LAN, 1 x RS485
Downstream Interfaces	4 x SNS buses, total 8 x RJ45 ports

### External Interfaces

Display Interface	1 x HDMI
USB	2 x USB 2.0

### LAN Port

Connector Type	RJ45 (T568B)
Speed	10/100M adaptive
Transmission Distance	100 meters
Protection Method	GAS + PPTC + TVS
Surge Protection	4KV / 2KA (8/20 $\mu$ s current wave)

### RS485 Port

Connector Type	Phoenix terminal
Baud Rate	1200 ~ 115200 bps
Transmission Distance	1200 meters
Overvoltage/Overcurrent Protection	5V / 200mA
Protection Method	GAS + PPTC + TVS
Surge Protection	4KV / 2KA (8/20 $\mu$ s current wave)

### SNS Bus

Connector Type	RJ45 (T568B)
Baud Rate	4800 bps
Transmission Distance	50 meters
Overvoltage/Overcurrent Protection	18V / 200mA
Protection Method	GAS + PPTC + TVS
Surge Protection	4KV / 2KA (8/20 $\mu$ s current wave)

### Power Supply

Power Input (AC)	100 ~ 240V AC
Power Input (DC)	150 ~ 330V DC (240V DC nominal)
Power Output	12V DC
Protection Method	ZOV + PPTC + TVS
Surge Protection	4KV / 2KA (8/20 $\mu$ s current wave)

### Operating Environment

Operating Temperature	-40°C to 85°C
Operating Humidity	5% ~ 95% RH (non-condensing)

### Physical Specifications

Indicators	Power, status, port data Tx/Rx, alarm
Mounting Method	1U rack mount, wall mount
Dimensions (W×D×H)	483 × 208 × 44.4 mm ( $\pm$ 2 mm, excluding Phoenix terminals and power plug)