



M2M LTE IoT Terminal/Gateway

AMR-301-nb

Description

The AMR-301-nb is an intelligent LTE Cat.M1/NB1 M2M router designed for machine to machine application taking advantage of Low power and wide coverage. With RS-232C/RS485 serial interfaces and serial-to-IP DTU feature, the M2M router can perform telemetry, data acquisition and remote monitor.

Application



Sensor / SCADA Device



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Specification

Cellular connectivity

- Cellular band : LTE band 1, 2, 3, 4, 5, 8, 12, 13, 17, 18, 19, 20, 25, 26, 28(and band 39 in M1 only) for NB1+M1 model
LTE band 5, 8, 20 or 28 for NB1 only model
- Data rate : eMTC(Cat-M1) Half-duplex (375 Kb/s DL and UL)
NB-IoT (Cat-NB1) Half-duplex (27.2kb/s DL, 62.5kb/s UL)
- Keep alive / EnsureConnect

Hardware

- 32-bit RISC CPU @ 580MHz
- 1Gb DDR2 SDRAM / 128Mb Flash memory
- 1 x RS232 + 1x RS485 or 2 x RS232 or 2 x RS485 by option
- 1 x RJ45 IEEE 10/100 Base-TX Ethernet port (management)
- 1 x SIM/UIM card socket, support 1.8/3.0V
- 1 x 2-pin terminal block or 1 x DC jack for power input
- 1 x SMA connector for Cellular
- 1 x Micro SD card socket for local storage
- 1 x USB 2.0 connector

Power Requirement

- DC 5~36V input
- 100~240VAC 50/60Hz to DC universal power adapter (Option)
- Power consumption : 5.0 Watt (Max.)

Physical Dimensions

- Metal housing : 117mm(L) x 86mm(W) x 32mm(H)

Environment

- Temperature : 0°C to 60 °C
- Humidity : 0%~90%R.H. (Non-condensing).

Network feature

- DTU Serial-to-IP TCP server / client, UDP server / client
- Modbus RTU
- Customized connect to varitey Internet cloud server/serivces

Management and Maintenance

- Access control
- Telnet, SSH, Web-based
- CLI : Telnet/SSH
- Configuration backup/restore through HTTP
- Firmware upgrade by Web, FTP and TFTP
- Management session time out
- System log and syslog supported

LED and Switch button

- 5 x Red/Green color LED
- Factory default/ System software reset



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