



IOT Product Line

LoRaWAN™ Industrial AT Commands Modem

ATM-1



ATM-1 is an industry standard modem providing LoRaWAN™ connectivity to existing M2M terminals using standard AT command set.

It allows existing equipment designed for traditional modem connections to be easily migrated to long-range public or private LoRaWAN networks, including ProEsys gateways and Network Server. The modem includes a LoRaWAN™ compliant protocol stack, allowing the user to focus on its application and not on protocol details.

DIN-Rail mounting allows for easy installation in industrial cabinets, requiring only 12/24VDC power supply and isolated RS-232/422/485 serial port.

It is ideally suited for high-performance and demanding markets: Energy, Smart Grid, Transportation, Telecom and Broadcasting.

FEATURES

Industrial Grade

Can be installed in any part of network, mostly in industrial environment.

Easy installation

DIN-Rail mounting

Detachable terminal blocks for power and serial ports

Galvanic Insulation / Surge protection

All ports offer additional protection as required by the most demanding standards

APPLICATIONS

- Critical Infrastructure monitoring
- TELCO / Broadcasting
- Smart Grid
- Smart Agriculture
- Transportation
- Asset Tracking
- Oil & Gas monitoring

SPECIFICATIONS

Main Control Unit	STM32™ Cortex®-M0+
Power supply	12-24VDC galvanically insulated 5.08mm Screw type detachable terminal block
LoRaWAN™ RF Module	Semtech® chip based
Operational RF Interface	863 -- 870 MHz
Supported protocol	LoRaWAN™ 1.0
RF protection	Surge arrester (optional) and galvanic insulation
Max TX Power	+14 dBm ERP
Average power consumption	2.5W max
Antenna connection	SMA, Output impedance 50 Ohm
RF antenna	Included indoor rubber antenna
Data connections	RS-232 / RS-485 / RS-422 galvanically insulated 3.81 mm Screw type detachable terminal block
Status indicator / Reset button	Power, Serial Connection, Reset / Pushbutton hole
Environmental resistance/Operating temperature	IP30 / -30 to + 70 °C
Surge protections	2.8 KV rms 1 min., 6 KV pk 1.2/50µs
Dimensions/Weight	79 x 101 x 45mm / 0.2 Kg

Specifications subject to change without notice



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