

# ARM-X

Advanced Radio Modem - eXtended



Licence free M2M\*

Contacts carrying & analogical values

Digital / Analogical



## The ARM-X extension module

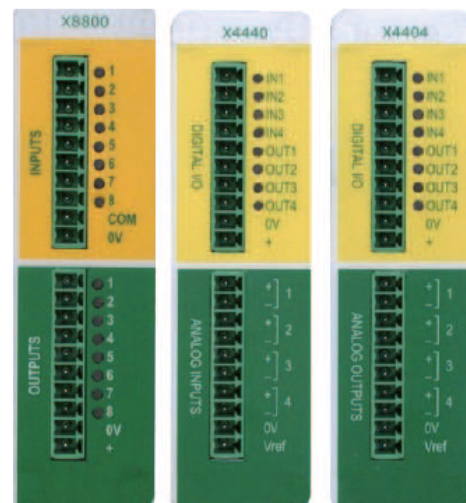
is designed for applications such as remote control, monitoring, telemetry, data transfer, ... where cabling is sensitive and expensive (dam, weather station, mechanic installations, ...), as well as for mobile applications (vehicles, cranes, robotics, ...). It offers a complete ready-to-use solution avoiding in some case the use of PLCs or I/O terminals.

The input-output modules are available in digital and in analog (0-10V / 4-20mA). Thermocouple and PT100 versions will complete this range soon. They are assembled with a base radio modem ARM-S (serial) or ARM-E (Ethernet). They can also operate with ARM-S1 or ARM-E1 base (without radio modem) for a wired communication in RS232 or RS485 (mirror or Modbus mode).

The Windows software " ARM MANAGER " enables the configuration of ARM-X and the adjustment of digital input filtering time, fall-back position of digital outputs, counting on upward, downward front or on state as well as different specific features. For analog inputs (12 bits that is to say 4096 points), it is possible to select the type of input (0-10V, +/- 10V, 4-20mA) as well as automatic triggering of a digital output order depending on high or low threshold. For analog outputs (12 bits), it is possible to configure a fall-back value.

- ▶ **Simple solution** (no automaton needed)
- ▶ **Extensions for ARM-SE radio modem** (1 to 4 modules)
- ▶ **Up to 32i / 32o** (or 16i + 16o analogical and 16i + 16o 4-20mA)
- ▶ **Mirror mode** point to point and multipoints
- ▶ **ModBus mode slave** Modbus) **with advanced functions** (filtering, memorization, counting, etc...)
- ▶ **Configuration with web pages**
- ▶ Work with the **ARM-SE** radio modem (see technical sheet)
- ▶ Aluminium box for **rail DIN** mounting
- ▶ **Compatibility** with the **ARM-IO and ARM-D(A)** range

## ▶ AVAILABLE VERSIONS



## APPLICATIONS TYPE

STATES AND ALARMS TRANSMISSION

- Energy (hydroelectric central ...)
- Water and wastewater management
- Secured remote control
- Rolling crane
- Stacker crane, conveyor systems
- Call operator systems



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\* Machine to Machine

# ARM-X

Advanced Radio Modem  
eXtended

Aluminum box IP40  
for rail DIN mounting

Low thickness in an electric  
caninet

Weight ~ 300 g / module



## Compatibility with the ARM range

ARM-SE : radio modem Serial / Ethernet

ARM-D: "Digital" version, 2 inputs 2 outputs

ARM-DA: "Digital" & "Analogical" version

ARM-IO : -D / -A / -S / -D-LP / -A-LP versions

ARM-C8 et -U8 : transceivers O.E.M. versions

## Articles references

ARM-X8800 : 8I+8O digital (optocoupled / Vmos)

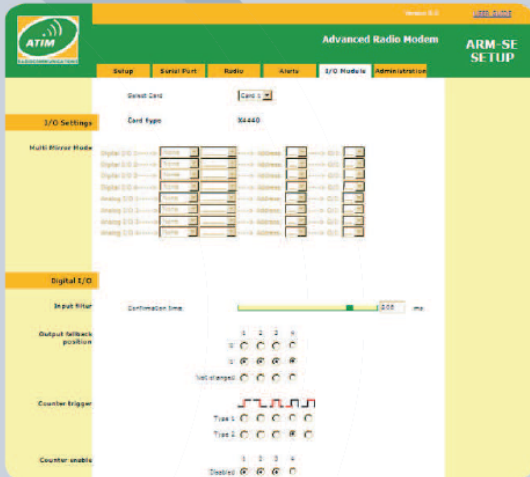
ARM-X4440/I : 4I+4O digital + 4 inputs 4-20mA

ARM-X4440/U: 4I+4O digital+ 4 inputs 0-10V

ARM-X4404/I: 4I+4O digital+ 4 outputs 4-20mA

ARM-X4404/U: 4I+4O digital+ 4 outputs 0-10V

ARM-X.... : contact us for speific uses



# Technical specifications

## FUNCTIONALITIES

- Mirror mode point to point or multipoint
- Modbus slave (radio or serial link)

## GENERAL INFORMATION

### ENVIRONMENTAL

- Operating temperature: -20 to +50°C
- Storage temperature: -30 to +70°C
- Humidity: 0 to 95% (no condensing)

### MISCELLANEOUS

- Led for each digital input and output
- Plug connector (3.96mm pitch)
- Separated power supply for base module and input/output modules (0-30Vcc)

## CONNECTIONS

### INTERFACES

- Base module: RS232/RS485 (ARM-S) or Ethernet (ARM-E)
- Digital inputs: opto-isolated (common ground) - 32-bit counting (E1 to E7 : 500Hz / E8 : 10kHz)
- Digital outputs: protected Mosfet (10-30Vcc)
- Analog inputs 0-20mA / 0-10V 12-bit (common or differential mode)
- Analog outputs 0-20mA (version /I) 12-bit

## power supply

Via ARM-SE power supply (10-30Vcc)



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