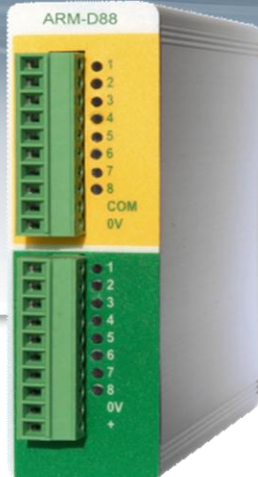# ARM-D88

**Advanced Radio Modem**

## Licence free M2M*

## Remote IO
## (8 Inputs + 8 Outputs)

### Digital

**ARM-D88 IO modules** are ideal for remote control applications, for supervision or telemetry applications.

They are used everywhere to replace cables, in harsh environment thus saving costs and time. For example on production lines or for mobiles applications like forklift drivers calling, conveyors, cranes, etc. The modules offer a complete plug and play solution and avoid using PLCs or IO terminals.

**ARM-D88** are equipped with 8 digital inputs and 8 digital outputs. Modules exist also with analogue IO (0-10 V/ 4-20 mA). They are compatible with the all ATIM **A.R.M** range (Advanced Radio Modem), for example with the serial/Ethernet radio modem **ARM-SE** or low cost radio modems **ARM-IO**. Communication is realized by using mirror mode or ModBus mode.
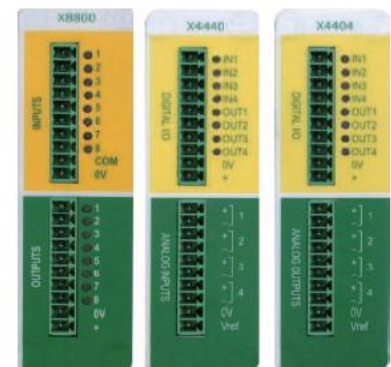
ARM-D88 embeddes the same advanced features than the ARM-SE (Web pages, secured radio link, LBT: Listen Before Talk, Watchdog,etc.)

The ARM-D88 has a web server embedded allowing an easy configuration via a web navigator locally or remotely via radio.

The RS485 port allows a ModBus serial link utilization or the interconnection of several modules.

## 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

*Machine to Machine

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- ➤ **Radio Modem**
  - **868MHz** (25 & 500 mW)
- ➤ **European Certification**
  - Licence free
- ➤ **Modular modules**
  - (1 to 16 connected modules)
- ➤ **Up to 128 DI / 128 DO**
- ➤ **Mirror Mode**
  - Point 2 point & multi points
- ➤ **ModBus (Slave ModBus)**
  - **Advanced functions** (filter, data logging, trigger, etc.)
- ➤ **Web pages configuration**
- ➤ **Repeater & function watchdog**
- ➤ **Easy settings**
- ➤ **DIN Rail mounting**
- ➤ **Compatible ATIM ARM range**

> **AVAILABLE VERSIONS**

**www.atim.com**

# ARM-D88

**Advanced Radio Modem
Digital 8I/8O**

**Aluminum Box IP40
DIN Rail**

**Weight ~ 300g / module**

## ARM range compatibility

**ARM-SE:** Radio modem Serial/Ethernet

**ARM-D:** Digital version, 2DI + 2DO

**ARM-DA:** Digital & Analogue Version

**ARM-IO:** Version –D/ -A/ -D-LP/ -A-LP/ -S

**ARM-X:** Old extension modules version

## Products codes

**ARM-D88:** 8DI + 8DO (Vmos)

**ARM-DAI/I:** 4DI+4DO+4 inputs 4-20 mA

**ARM-DAO/I:** 4DI+4DO+4 outputs 4-20 mA

**ARM-DAI/U:** 4DI+4DO+4 inputs 0-10V

**ARM-DAO/U:** 4DI+4DO+4 outputs 0-10V

**ARM-…:** For specific products contact us

## OPERATION MODES

- Mirror mode point to point and multipoint
- ModBus Slave (via radio or RS485 link)

## GENERAL INFORMATION

### ENVIRONMENT :

- Temperature : -20 to +50°C/ Stock : -30 to +70°C

### EXTRAS:

- Led indicator for each digital inputs & outputs
- Screw terminal block (3.96mm)
- Coding wheel, 16 channels & Dip switch (Test mode & RS485 Resistor)

## INTERFACES

- RJ45 10 Base T connector, web pages configuration
- Screw terminal block: power supply (Vcc/ Gnd), RS485 (A/B), 1 digital input (IN) and 1 watchdog output (OUT)
- Digital Inputs: Boolean state/ trigger 32 bits (E1 to E8: 1kHz)
- Digital Output: Mofset protected (10-30 Vcc – 0.5A max)
- Contact us for RS232 version instead of RS485.
- Power supply, 10-30 Vcc.
- RF features. 868MHz, 25 & 500 mW, GFSK modulation, Baud rate: 9600/ 19 200 bps. Certification: RTTE1995/5/CE – ETS300-220-3v1.1.1. CEM EN 301 489-3 v1.4.1 – Security ZNF EN60950 Ed.2000 – RoHS conformity

DISTRIBUTED BY :

# www.atim.com )))

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