

Installation guide

ARM/868-DXXXX

Advanced Radio Modem Digital Input & Output

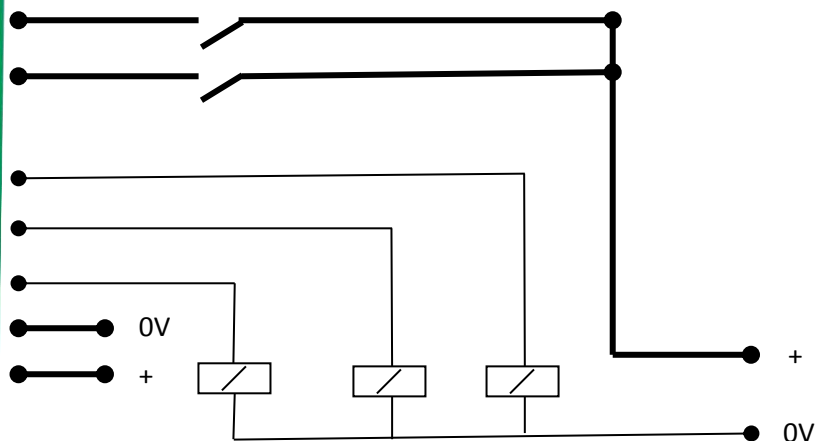
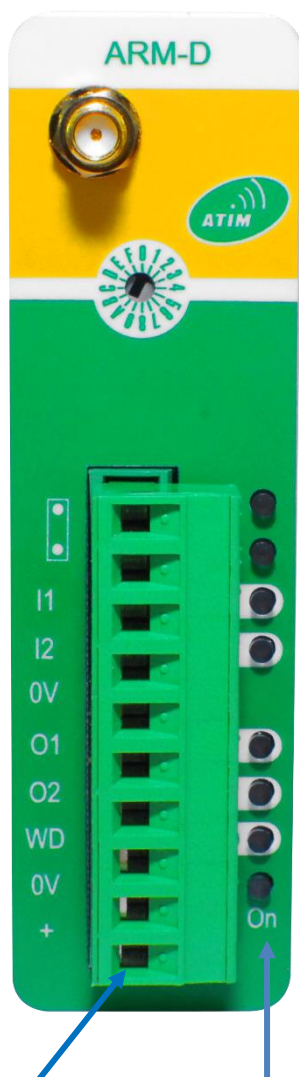


- ✓ 868 MHz radio modem (1 to 500 mW)
- ✓ European regulations, without licence
- ✓ High sensitivity, long range and stable (TCXO)
- ✓ MODBUS mode or Mirror mode
- ✓ Compatible with all the ARM and ACW/868 range.
- ✓ Configuration by USB
- ✓ 10pts connector spacing of 5.08
- ✓ 10-30Vdc (500mA max) power supply
- ✓ 2 digital inputs 4-30Vdc
- ✓ 2 digital outputs MOSFET 10-30Vdc
- ✓ 1 alarm output 10-30Vdc
- ✓ Add Input or Output card (max4) (connector 8pts spacing 3.5)
- ✓ RS485 (connector 2pts spacing 3.5)
- ✓ Metal casing for DIN rail fixing

Carte Fille 1	
Carte Fille 2	
Carte Fille 3	
Carte Fille 4	

1. INSTALLATION

Pin 10	Do not use
Pin 9	Do not use
Pin 8	Digital input 1
Pin 7	Digital input 2
Pin 6	0V Power supply
Pin 5	Digital output 1
Pin 4	Digital output 2
Pin 3	Alarm digital output
Pin 2	0V Power supply
Pin 1	+ 10/30vcc Power supply

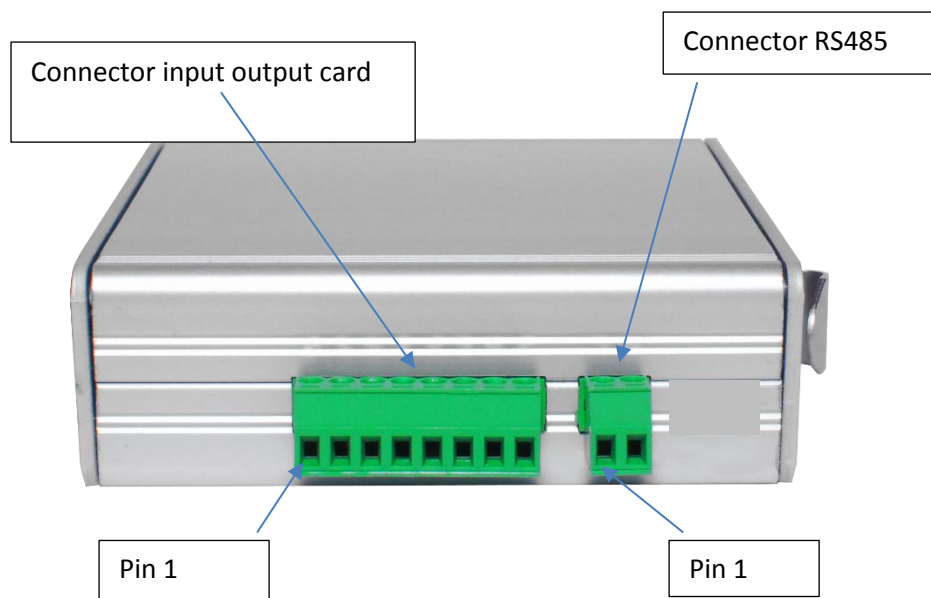


Pin 1

LED 1

LED 8	Green	Tx : Emission
LED 7	Green/Red	Rx : Reception/Error
LED 6	Yellow	I1 : Digital input 1
LED 5	Yellow	I2 : Digital input 2
LED 4	Red	O1 : Digital output 1
LED 3	Red	O2 : Digital output 2
LED 2	Red	WD : Alarm digital output
LED 1	Green	ON : Power supply

2. CONNECTION CARD



Pin 1	Input Output Card 1
Pin 2	0V
Pin 3	Input Output Card 2
Pin 4	0V
Pin 5	Input Output Card 3
Pin 6	0V
Pin 7	Input Output Card 4
Pin 8	0V

Pin 1	RS485+
Pin 2	RS485-

Characteristic Card :

Card Logical Input (IL) :

- Logical Positive
- Voltage state On : 6V à 30V
- Voltage state Off : 0V à 5V

Card Logical Output (OL) :

- Logical Positive (MOSFET)
- Voltage: 9V à 30V
- Charging current maximum: 0,5mA

Card Analog Input (IA) :

- Input 0-20mA
- Resolution : 12bits
- Error Maximum : 0,5% PE
-

Card Analog Output (OA) :

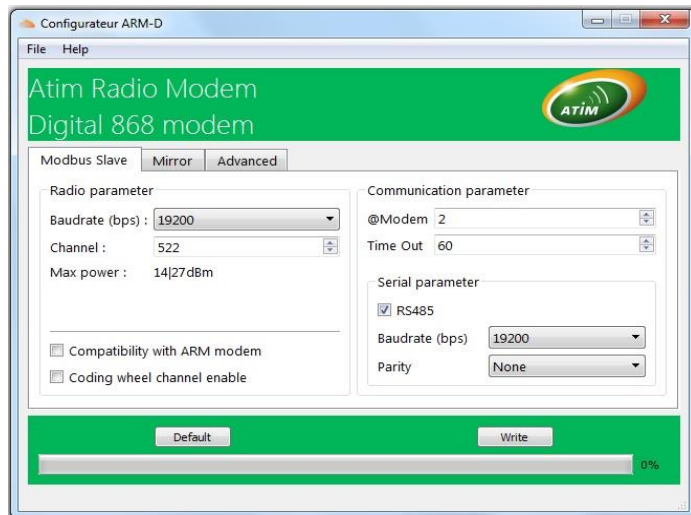
- Output 0-20mA
- Resolution : 12bits
- Error Maximum : 0,5% PE
- **To Avoid Internal Rise Temperature used Supply 12 V**

4 MODBUS CONFIGURATION

Download and install the “setupARM-D.exe” configuration software :

Connect the modem to the computer with the USB cable and launch the software.

When you connect the device, the window changes to allow you to change the essential functionalities. Automatically, the modems current configuration connected is retrieved and displayed. You can see this window :



Baudrate :1200bps to 115000bps

Channel : Channel selection
(See USER GUIDE ARM N8LD-LP)

Compatibility : Compatible with the old ARM versions

Coding wheel : select the channel according to the position of the coding wheel (see table)

@Modem : MODBUS address (1 to 255)

Time Out : Alarm from 0 to 255 seconds (0 = alarm deactivated)

RS485 : validation of the RS485 connection (Option)

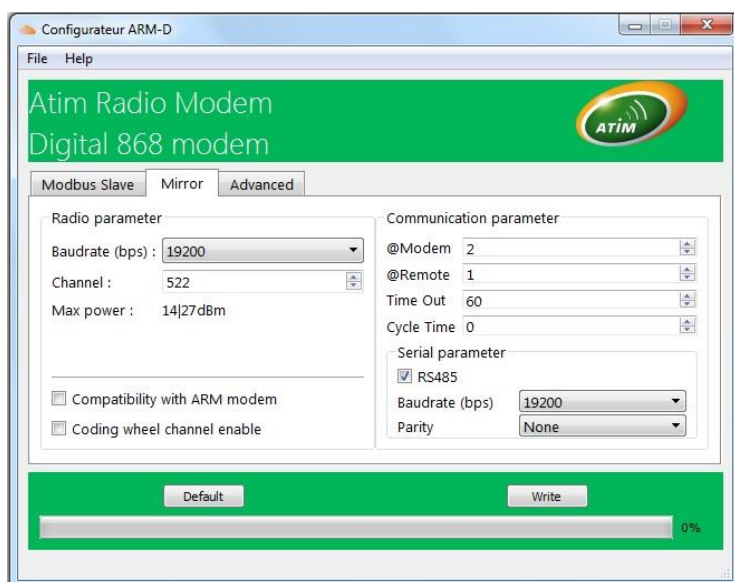
Baudrate & Parity : Control RS485

Write : Enables to save the configuration after plugin out the USB wire

Default : To put back to factory conditions after plugin out the USB wire

REMARK : Do not enable RS485 (Tab Advanced :Register S30 bit 0 must be 0 S30=04)

3 MIRROR CONFIGURATION



Baudrate : 1200bps to 115000bps

Channel : Channel selection
(See USER GUIDE ARM N8LD-LP)

Compatibility : Compatible with the old ARM versions

Coding wheel : select the channel according to the position of the coding wheel (see table)

@Modem : Local address (1 à 255)

@Remote : Target address (1 à 255)

Time Out : Alarm from 0 to 255 seconds (0 = alarm deactivated)

Cycle Time : Time between 2 cyclic emissions from 0 to 255 Time basis : 0.5s example for 10s you should put 20. 0 defines slave mirror mode

RS485 : validation of the RS485 connection (Option)

Baudrate & Parity : Serial port speed and parity

Write : Enables to save the configuration after plugin out the USB wire