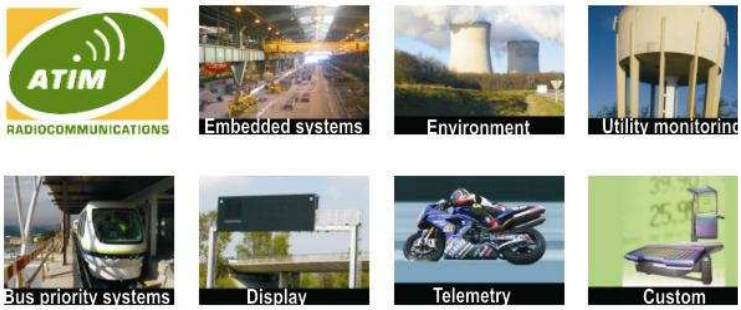
ARM-C8 O.E.M. Radio Transceiver 868MHz

- **New embedded Radio Module for electronic designers**
- **868 MHz (for 433 and 915MHz versions, contact us)**
- **European standard, license-free**
- **High sensibility, long range**
- **Modes : transparent and securized**
- **Configuration by Hayes commands**
- **Module to be soldered by 2x12-pad slots**
- **Basic functions : 4 signals only**
- **U.FL connector for antenna**
- **Excellent quality/price ratio**

> 5 km in 868 MHz 500 mW !

The **ARM-C8 transmitter** is a very high-performance embedded radio module enabling wireless connectivity to any electronic device equipped with a micro-controller with serial port interface. It integrates in standard, transparent and securized modes as well as the configuration by Hayes commands. It's also compatible with all the ARM range. Its easy-to-implement is unique: just only 4 pads: 5 and 3-3.3 VDC power supply, 0V, Rxd (Reception) and Txd (Transmission) to solder and it's done. The radio throughput is 19,200 bps in standard and as for the serial port one, it's configurable from 1,200 up to 115,200 bps.

The ARM-C8 can be mounted vertically by the edge or in flat position on a circuit board. Two 12-pad (2,54mm = 10 TH pitch SIL) slots are available for soldering for instance 2 rows of 12 pins of which one row is reserved for specific applications in co-operation with ATIM's technical team.



TECHNICAL FEATURES

RADIO INTERFACE

- 868MHz I.S.M. Band (for 433, 915MHz contact us)
- ERP : 10mW / 100mW / 500mW according to standards and frequency range
- GFSK modulation
- Radio throughput : NRZI 19200 bps
- 16 channels configurable by Hayes or by pins
- Reception sensitivity : -105dBm @9600bps

INTERFACES

- 1 serial port low level (3.3V) Rx Tx Rts Cts
- 3 I/O ports low level (3.3V)
- 1 extension connector (12 pins)

SOFTWARE FEATURES

- Transparent mode
- Securized Mode

COMPATIBILITY

- with ARM-E (Ethernet) module
- with ARM-S (Serial) module
- with ARM-D (Digital) module

CONFIGURATION

- Hayes commands
- Parameter saving in EEPROM

POWER SUPPLY

- 5VDC (low power version 3-3.3V)
- Consumption: Max 350mA (Tx mode 500mW), <50µA in sleep mode (Low Power version)

PINOUT

1. Antenna ground
2. Antenna
3. Gnd - 0V
4. Vdc +5V
5. Cts
6. Rts
7. Rxd
8. Txd
9. P0 (3-3.3V)
10. P1 (3-3.3V)
11. P2 (3-3.3V)
12. Gnd – 0V

CONNECTORS

- 2x12 pads (SIL) 2.54mm pitch (12 pads reserved for specific use)
- U.FL type connector (UFL/SMA cable in option) or pad 1 and 2 for antenna connection

ENVIRONNEMENT

- Operating temperature : -30 to +55°C
- Storage temperature : -40 to +70°C

REGULATORY APPROVALS

- RTTE1995/5/CE
- ETS300-220-3 v1.1.1
- CEM EN 301 489-3 v1.4.1
- Security NF EN60950 Ed.2000

DIMENSIONS

- Dimensions: 64x32x4mm
- Weight : 10g

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