

# High Speed & High Power Multichannel Transceiver

## XTR VF 2.4 PA-LNA HAI

P.N. 650201204G

### Description

Industrial automation, Radio modems, Access control.

Long range transceiver XTR VF 2.4 PA LNA is pin-to-pin compatible with previous model XTR VF 2.4 LP, representing an extension suitable to reach a RF output power (ERP) increase up to 18 dBm (compared with the 4 dBm of the XTR VF 2.4 LP). In this way it's possible to cover in open space outdoor conditions, a radio link of 200 meters.

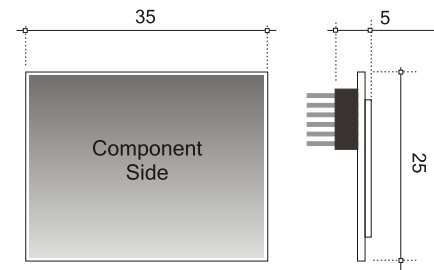
It uses a DSSS (Direct Sequence Spread Spectrum) technique that allows to operate in disturbed environments and reduces the interference caused by traditional narrowband signals.

This technique also permits coexistence with Bluetooth and Wi-Fi as well as all other wireless technologies that utilize the 2.4GHz ISM Band.

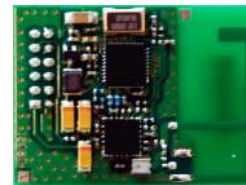
Radio transceiver embedded a power amplifier (PA) for transmission, and a low noise amplifier (LNA) to clear up the signal received.

This way it's possible to program the transceiver setting RF channel, transmission data rate and RF radiated power.

### Dimensions



### Component Side



### Pin-Out

- |           |         |
|-----------|---------|
| 1) GND    | 8) MISO |
| 2) VCC    | 9) GND  |
| 3) IRQ    | 10) NC  |
| 4) nRESET | 11) NC  |
| 5) MOSI   | 12) NC  |
| 6) nSS    |         |
| 7) SCK    |         |

## TECHNICAL SPECIFICATION

Ta = 25 °C

CHARACTERISTICS	CARATTERISTICHE	MIN	TYP	MAX	UNIT
Power supply	Alimentazione	2		3.6	Vdc
Supply Current (RX mode)	Corrente assorbita (RX)		31		mA
Supply Current (TX mode step 6)	Corrente assorbita (TX step 6)	100		130	mA
Supply Current (TX mode step 4)	Corrente assorbita (TX step 4)			80	mA
Supply Current (Standby)	Corrente assorbita (Standby)		2		µA
Modulation	Modulazione		GFSK		
Sensitivity @250kbit/s	Sensibilità @250kbit/s		-100		dBm
RF Power out	Potenza in uscita	-10		18	dBm
RF Channels frequencies	Frequenza dei canali	2404		2480	MHz
Operating temperature	Temperatura di lavoro	0		+70	°C