

The first wireless network

You can really OWN

Based on large volume demand, AUREL is willing to share with you technical files in order to get more fruitful partnership and cost optimization.



Schematics



Layout



Stack

Benefits:

- Easy embedding of wireless network in your product.
- Quick time to market.
- Best optimization of overall costs.



**You customize the network the way you like...
... don't let others decide what you need!**

The best wireless network for Home Automation

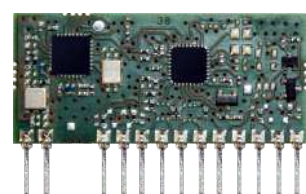
RFTide™ is a 868 MHz wireless mesh network, developed for home and building automation.

What network can do:

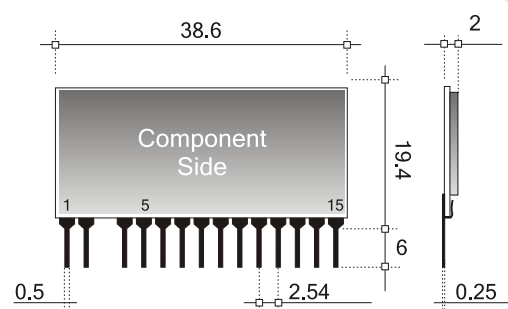
- Command actuators from a keyfob , smartphone, laptop or PC.
- Turn the light on/off and dimming , move the roller shutter up/down, set thermostat temperature.
- Read out sensors status (energy monitoring).

Main features:

- Stack adaptable to different profiles, easy addition of functionalities on customer demand.
- Easy configuration, by means of an hand held transmitter.
- Low cost: no royalty, no alliances, very light stack.
- Portable nodes are permitted.



RFT 868 3V/5V



CHARACTERISTICS		MIN	TYP	MAX	UNIT
Frequency	Frequenza		868.3-869.85*		MHz
RF Bandwidth	Banda RF		60		KHz
Supply Voltage 3V	Alimentazione 3V	2.7	3.3	3.6	V
Supply Voltage 5V	Alimentazione 5V	3.3	5	5.5	V
Supply Current (TX Mode)	Assorbimento (modalità TX)			33	mA
Supply Current (RX Mode)	Assorbimento (modalità RX)			10	mA
Supply Current (Stand-by)	Assorbimento (Stand-by)	0.2		4	µA
Modulation	Modulazione		FSK		-
RX Sensitivity	Sensibilità Ricevitore		-100		dBm
RF Power Out (868.30)	Potenza in uscita (868.30)		7		dBm
RF Power Out (869.85)	Potenza in uscita (869.85)		7		dBm

(*) Different modules are available at the two indicated operating frequencies.

868 MHz Mesh Network

Thermostat



Curtain/Door Automation



Security



Gateway



Remote control



Smartphone/Tablet Control



Energy Monitoring



Lighting



230V Wall Repeater

RFT-868-REP Wall Repeater

Wall repeater is a specific device intended for extend network coverage. It should be powered with 230VAC and it is provided in a small enclosure fitting in every electrical mounting box. It is equipped with a back-up battery able to power the module for 8 hours.
Size: 43.8 x 43.8 x 25 mm

RFT-868-GATEWAY

Bridge between RFTide network & Ethernet:

- Must be accompanied with a standard USB dongle.
- Web page available via PC, tablet or smartphone.
- Supports PWM and MOTOR profile through a web server.
- No need for software installation.
- Two USB inputs.

RFT-868-USB Stick

The USB dongle equipped with a RFTide serialized module and it allows the module itself to be used with PC with no need for further components.

RFT-868-5CH Remote Control

Master of the network used for the configuration, controlling and commanding.

RFTide network creator:

- ID configuration.
- Start-up utility profile.
- Control/command all the connected nodes.

Web Application

Easy web online interface for your home management.