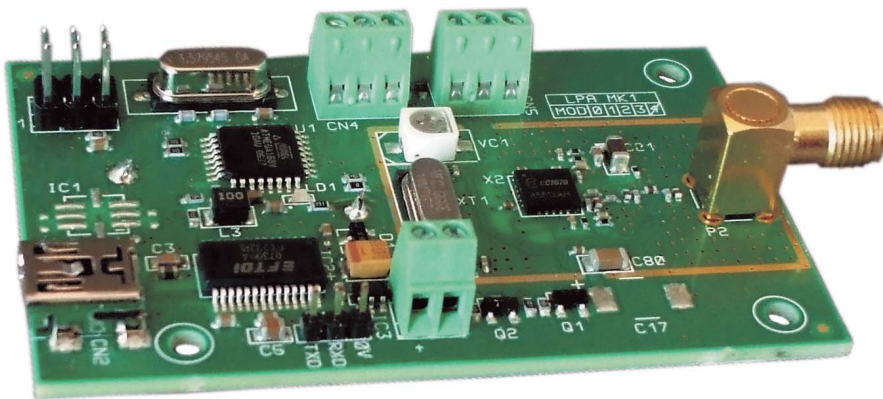


LPA

Low power UHF transmitter module



OEM 4-zone SRD transmitter module

The LPA transmitter is a low power SRD transmitter intended to be used in applications that require radio alerts on demand from a user or automated by the configuration software.

Frequency can be programmed from 433MHz - 460MHz* and power output can be varied from 0dBm - 10dBm. Standard Scope radio protocol transmitted direct to Rx devices is used although other protocols can be used on request.

The LPA unit is configured via the application software and the USB interface although for very low cost applications a TTL interface can also be used.

Each of the four inputs can have its own configured message (up to 21 chars) along with a Reset message (up to 21 chars), a low battery message (up to 21 chars) and a battery shutdown message (up to 21 chars).

* Subject to licensing constraints of individual countries

features

The LPA transmitter has 4 dry-contact inputs which can be configured Normally open, Normally Closed or Toggle with multiple repeats and configurable repeat timer.

- Optional 2 axis accelerometer for shock & tilt alarm applications
- Frequency Programmable 433MHz - 460MHz
- Variable power output (0dBm - 10dBm)
- Powered by external DC source of between 4 & 16 V
- Test call function
- Low power "sleep" mode
- 10mW output power

Specification

Power Supply:

Voltage:

4-16V ext. DC source (5V nominal)

Current:

<50mA (transmitting)
10mA (USB connected)
<100uA (sleep mode)

Temperature:

Operating:

-20 to 55 degrees Centigrade

Storage:

-40 to 80 degrees Centigrade

Transmitter:

Freq range 433 - 460 MHz
Frequency accuracy: +/- 1.0KHz max
(over operating temperature range)
Power output 10mW max
Channel spacing 12.5KHz
Tx baud rate 512/1200/2400
Transmit protocol POCSAG

Antenna Options:

SMA whip

USB:

USB 2.0 compliant interface
USB B type connector
USB supply can power the device

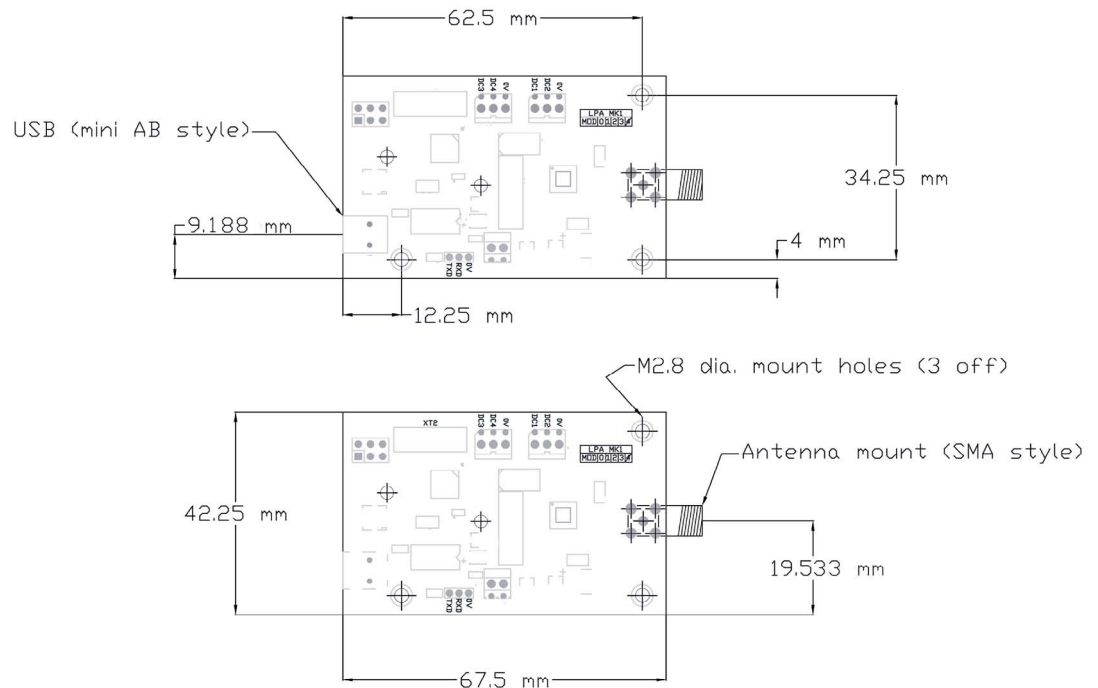
Dimensions: 67.5 mm x 42.25 mm
(excluding antenna mount)

Trigger Input Specification

- Configurable message for each contact (up to 21 characters)
- Can be configured as Normally Open, Normally Closed or Toggle ^[1]
- Repeat enabled (up to 4 for each event)
- Repeat time can be configured (5 - 255 secs in 5 second steps)
- Test calls repeat messages up to 18 hours
- Reset message (up to 21 chars)
- Low Battery message (up to 21 chars)^[2]
- Battery Shutdown message (up to 21 chars)^[3]
- Tilt sensor trip (up to 21 chars) - If fitted
- Contact response time = 30mS min, 50mS max (contacts cannot be used as fast pulse detector)

1: Normally Open is recommended for Low Power Long life Applications (Battery). On toggle mode no repeats are transmitted.
2: When a low battery is detected Transmitter output power is automatically reduced in order to maximise battery life
3: When the battery can no longer support the Transmitter a battery shutdown message is transmitted.

The firmware can be modified to suit customer requirements. Please consult Technical Sales for a quotation.



Compliance

R&TTE directive 1999/5/EC

EMC Directive (89/336/EEC) EN 301 489-1 V1.4.1

Low Voltage Directive (73/23/EEC) EN60950 : 2000

ETSI EN 300 220-1 V2.1.1 (2006-04)

Copies of the Declaration of Conformity covering this product can be obtained from Scope

Note: For OEM applications, it is the end manufacturer's responsibility to ensure that their final product continues to meet all relevant approvals and EU Directives, and Scope will not accept liability for any subsequent non-conformances in this respect.



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