

RFT-1

UHF Transmitter



Visonic Ltd

Specification Sheet

1. INTRODUCTION

The RFT-1 is a general purpose, miniature low-power transmitter module, designed for digital data transfer on UHF radio channels. Its main application is transmission of digital data in remote control systems and RF data links, using the Visonic Ltd. RFR-1 receiver modules at the receiving end.

The transmitter accepts a serial, CMOS level data input. The standard model is equipped with a 4-terminal, right-angle board-to-board connector for the DC and data inputs as well as for the RF output. Another version with a straight pin header is also available upon special request (see Figures 2 and 3). An external antenna wire (up to 28 cm) is required, or alternatively, a printed antenna strip must be provided on the host system motherboard.

2. SPECIFICATIONS

Frequencies (MHz): 315.0 / 404.0 / 418.0 / 433.92

Antenna Required: antenna wire or printed strip (up to 28 cm long), connected to the ANT terminal.

Modulation Type: 100% ASK (Amplitude Shift Keying)

Data Rate: Up to 1.2 kbps NRZ.

Data Input Levels: 0V (LOW) and 5V (HIGH)

Operating Voltage: 9 VDC \pm 10%, regulated

Current Drain: 10 mA (Input HIGH), 0 mA (input LOW)

Operating Temperatures: 0°C to 49°C (32°F to 120°F).

PCB Dimensions: 20.5 x 19 mm (13/16 x 3/4 in.).

Compliance with Standards: Designed to meet FCC part 15 and ETS300-220 requirements.

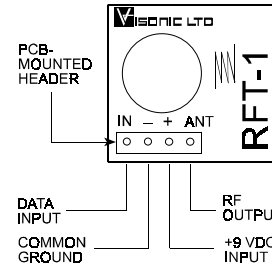


Figure 1. The RFT-1 Module

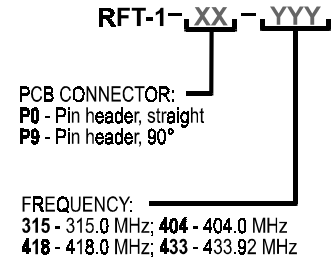
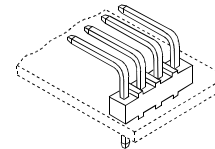
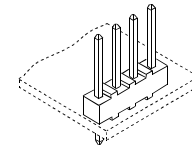


Figure 2. Ordering Information



90° Header
CODE P9



Straight Header
CODE P0

The PCB-mounted headers are 4-position, single-row, board-to-board connectors with 2.54 mm (0.100") pitch and 0.64 mm (0.25") square pins.

Figure 3. Connector Types

WARRANTY

Visonic Ltd. and/or its subsidiaries and its affiliates ("the Manufacturer") warrants its products hereinafter referred to as "the Product" or "Products" to be in conformance with its own plans and specifications and to be free of defects in materials and workmanship under normal use and service for a period of twelve months from the date of shipment by the Manufacturer. The Manufacturer's obligations shall be limited within the warranty period, at its option, to repair or replace the product or any part thereof. The Manufacturer shall not be responsible for dismantling and/or reinstallation charges. To exercise the warranty the product must be returned to the Manufacturer freight prepaid and insured.

This warranty does not apply in the following cases: improper installation, misuse, failure to follow installation and operating instructions, alteration, abuse, accident or tampering, and repair by anyone other than the Manufacturer.

This warranty is exclusive and expressly in lieu of all other warranties, obligations or liabilities, whether written, oral, express or implied, including any warranty of merchantability or fitness for a particular purpose, or otherwise. In no case shall the Manufacturer be liable to anyone for any consequential or incidental damages for breach of this warranty or any other warranties whatsoever, as aforesaid.

This warranty shall not be modified, varied or extended, and the Manufacturer does not authorize any person to act on its behalf in the modification, variation or extension of this warranty. This warranty shall apply to the Product only. All products, accessories or attachments of others used in conjunction with the Product, including batteries, shall be covered solely by their own warranty, if any. The Manufacturer shall not be liable for any damage or loss whatsoever, whether directly, indirectly, incidentally, consequentially or otherwise, caused by the malfunction of the Product due to products, accessories, or attachments of others, including batteries, used in conjunction with the Products.

The Manufacturer does not represent that its Product may not be compromised and/or circumvented, or that the Product will prevent any death, personal and/or bodily injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will in all cases provide adequate warning or protection. User understands that a properly installed and maintained alarm may only reduce the risk of events such as burglary, robbery, and fire without warning, but it is not insurance or a guarantee that such will not occur or that there will be no death, personal damage and/or damage to property as a result.

The Manufacturer shall have no liability for any death, personal and/or bodily injury and/or damage to property or other loss whether direct, indirect, incidental, consequential or otherwise, based on a claim that the Product failed to function. However, if the Manufacturer is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, the Manufacturer's maximum liability shall not in any case exceed the purchase price of the Product, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Manufacturer.

Warning: The user should follow the installation and operation instructions and among other things test the Product and the whole system at least once a week. For various reasons, including, but not limited to, changes in environmental conditions, electric or electronic disruptions and tampering, the Product may not perform as expected. The user is advised to take all necessary precautions for his /her safety and the protection of his/her property.

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