TECNET

TD-2400MD
2.4 GHz Data/Telemetry Radio

TD-2400MD Data Radio Modem

- Key Scanning for Multi-Key Remote Controller

- LED Status Indicator Lights

- 500 mW Power Output

- DE-9 Pin Male Connector

- Hardwired AES-128 Encryption Engine

- RF Data Speed 250 Kbps

- Serial Data Interface 115.2 Kbps

- Low Power based on 5V Operation Controller

- Industry Standard 8051 8-Bit MCU

3 YEAR WARRANTY

TecNet Data/Telemetry radios are an economic high performance solution for fail-safe telemetry applications. The TD-2400MD is a small package with a wide range of point-to-point and point-to-multipoint applications.

The TD-2400MD is designed with System-on-Chip (SOC) for low power consumption technology in the unlicensed ISM band at 2.4 GHz. Based on IEEE 802.15.4 and Zigbee protocols; TD-2400MD combines RF transceiver, enhanced 8 bit 8051 MCU with internal 96kb of FLASH and 8kb of RAM to accomodate user applications. Hardwired AES-128 encryption engine.

Applications:

- Remote Monitoring
- AMR Systems
- Oil and Gas Field SCADA
- Security/Alarm Systems
- Gate ID Tag Systems
- Data Logging
- Process Controls
- Commercial Sign Control
- P.O.S Data
- Weather Monitoring Stations
- Weight Scales
- Remote Signage

TD-2400MD
ZigBee Data/Telemetry Radio

Specifications

General

CPU Core Operation Voltage   1.5V
TX Current   460mA, 500mW
RX Current   60mA
Operating Temperature   -30 to +60° C
Operating Voltage   DC, 5V
Current Drain   Tx: 460mA, Rx: 60mA, Stdy: 50mA
Crystal   16 MHz ($\pm$10 ppm)

Approvals	FCC	Industry Canada
TD-2400MD	VSOXR-2400 /	9680A-XR2400

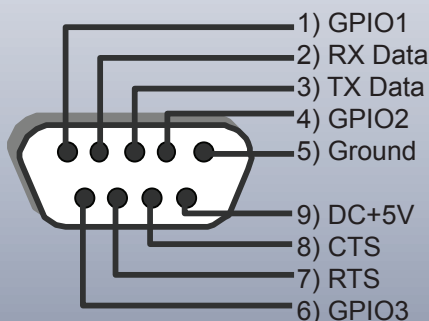**RoHS**
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CE

RF Characteristics

Frequency Band   2.4 GHz
Channels   16 Channels
Data Rate   250 kbps
Output Power   500mW
Sensitivity   -98dBn

MCU Characteristics

Microcontroller Core   Enhanced 8051
Flash Memory   96 kb
Data Memory   8 kb
Serial Interface   115.2 kbps

Standard Package

Radio and antenna.

Accessories

- Dipole; RPSMA Antenna
- PC Configuring Software/Cable (USB)

Contact Information

RS-232C DE-9 Male Connector

1) GPIO1
2) RX Data
3) TX Data
4) GPIO2
5) Ground
9) DC+5V
8) CTS
7) RTS
6) GPIO3

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