



T I A M I S - 8 0 0 L T R A N S C E I V E R

F O R S E R I A L I N T E R F A C E S



Tiamis-800L, software defined radio transceiver, extruded aluminum enclosure

- **Frequency band 902-928 MHz**
- **Network Topologies: Point-to-Point, Point-to-Multipoint, TDMA, Peer-to-Peer**
- **Single Radio Repeater**
- **Data Encryption: AES, DES, and 3DES**
- **RF Channel throughput 130 kb/s**
- **On board firmware bank**
- **Selectable hop tables**
- **User Interchangeable data interface**
- **Output Power up to 1 Watt**
- **Minimum operating voltage is as low as 4.5 VDC**



Tiamis-800L, software defined, board level, radio transceiver when equipped with *Option 1100*, *Option 1102*, or *Option 1103*.

R E L A T E D P R O D U C T S

- **Interchangeable data interface**
- **Serial data options: Option 1100, 1102, 1103, refer to the interface section for option details**
- **Ethernet data options: Option 1200, 12E0**
- **Board level**
- **Accessories**
- **Antennas**
- **Cables**

L E X Y C O M T E C H N O L O G I E S , I N C

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Where any application finds its wireless solution

TIAMIS-800L TRANSCEIVER



CHARACTERISTICS

Frequency band of operation	902...928 MHz
RF channel throughput	130 kb/s
Network topologies supported	Point-to-Point, Point-to-Multipoint, TDMA, Peer-to-Peer
RF Network security	In addition to the proprietary network protocol that is used, the following parameters of the transceiver are user selectable, providing required network security: Hop table up to 128 frequency channels long. Number of data bytes in each RF packet
RF channel data encryption	Available cryptography: AES, DES, and 3DES algorithms. User-defined security keys.
Output power	Programmable with 1 dB steps, up to 1 Watt.
Sensitivity	-110 dBm @ BER 10^{-6} , RF channel bit rate of 130 kb/s, 2 level FSK
Input voltage range	4.5...25 VDC.
Operating temperature range	-30 ... + 80 deg C.
Humidity	Up to 90%, non-condensing.
RF connector	SMA
Data interfaces supported	With the appropriate interface board, the transceiver is capable of supporting the following data interfaces: RS232, RS422, RS485, USB, I2C, SPI, Ethernet, and Digital I/Os.
Dimensions (board level)	3'' x 6.45'' x 0.5''.

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