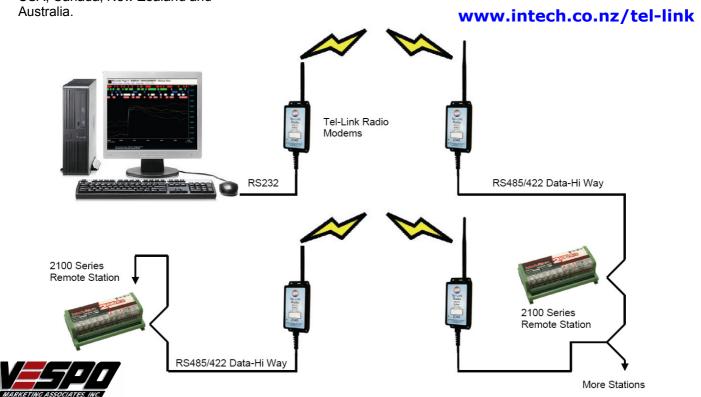
MicroScan: Wireless Data Links with Tel-Link Radio Modems

The **Tel-Link Radio Modems** are powered by FCC and ETSI approved **MaxStream** radio modules with frequency hopping spread spectrum capability. Radio Modems are available for either the 2.4GHz or 900MHz license-free ISM bands (Industrial, Scientific and Medical bands). Up to 30km Range (Line of Sight) can be achieved on 900MHz with a High Gain Antenna. There is a full range of RS232, RS485, RS422 and USB interface options available allowing incredible flexibility.

Features:

- MicroScan can now collect data from areas previously uneconomic.
- True peer-to-peer networking (no Master radio needed).
- Networking features allow up to 7 independent pairs (networks) to operate in close proximity.
- Supports all MicroScan Interface baud rates.
- 900MHz license-free ISM bands (Industrial, Scientific and Medical).
- 19.2kbps over-the air data rates.
- Up to 65,000 network addresses available.
- Signal strength reporting for link quality monitoring and debugging.
- Outdoor units are supplied with a stainless steel mounting bracket and U bolts.
- 900MHz modules certified for use in USA, Canada, New Zealand and Australia.





Tel-Link Radio Specification

General:

Frequency

900MHz ISM Band 902-928 MHz **Spread Spectrum Type** Frequency Hopping Direct FM

Network Topology Point to MultiPoint Point to Point

Multi-Drop Transparent Channel Capacity Share 25 Frequencies

7 Hop Sequences

Up to 6km

I/O Data Rate 1200 to 57600 Baud

Antenna:

Connector Indoor Reverse Polarity SMA **Connector Outdoor** Reverse Polarity TNC 50 ohms unbalanced **Impedance**

Certification:

FCC Part 15.247

900MHz ISM Band **OUR9XSTREAM**

NZ/Australia

900MHz ISM Band FCC Part 15.247 2.4GHz ISM Band EN 300 328

Performance under normal conditions*:

Indoor Urban

900MHz ISM Band Up to 450m

Outdoor Line of Sight

900MHz ISM Band

with Dipole

900MHz ISM Band Up to 3km with High Gain Antenna

Tel-Link Radio Modems

Phone: 1-800-49-VESPO or 1-239-348-8086

Fax: 1-800-36-VESPO or 1-239-348-9910

Order Codes

Tel-Link Radio RS232 Outdoor

- Order Code TL-232O-9 for 900MHz

Tel-Link Radio RS232 Indoor

- Order Code TL-232I-9 for 900MHz

Tel-Link Radio RS485 Outdoor

- Order Code TL-485-O-9 for 900MHz

Tel-Link Radio RS485/422 Indoor

- Order Code TL-485-I-9 for 900MHz

Note * Normal conditions = on 3 meter pole with line of sight and no surrounding trees and buildings.

Serial Data Throughput 19.2 Baud **RF Baud Rate** 20,000 Baud

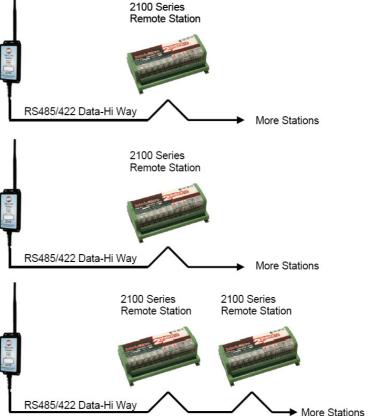
Transmit Power Output

900MHz ISM Band 140mW

Receiver Sensitivity

900MHz ISM Band -107dBm

www.intech.co.nz/tel-link



MicroScan Computer