

NEW Wireless MicroScan Connections - ZigBee® Z-2400 Series

Wireless options:

Which one suits your application: ZigBee® or Radio Modems?

ZigBee® is a new technology designed for short range mesh networking that allows easy expansion. Ideal for sites where wireless is preferred over cable connections. Applications: Hospitals, Labs, Blood banks and Industry.

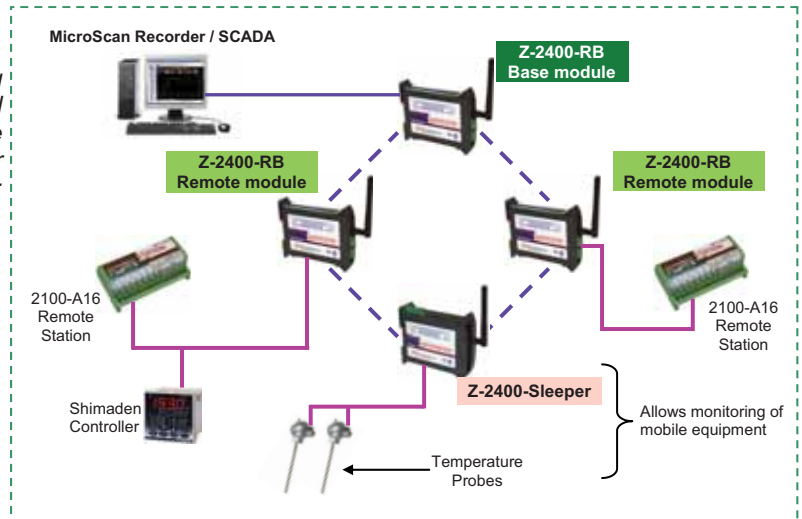
Radio Modems are the traditional long range and high speed communications. Applications: Industry, Utilities, environmental, fresh and waste water.

MODEL	BENEFITS					COMMUNICATIONS	
	EASY EXPANSION	LOW COST	REDUNDANCY	LONG RANGE	HIGH SPEED	MICROSCAN	MODBUS.RTU
ZigBee® Z-2400 Series	✓	✓	✓			✓	
Tel-Link Radio Modems				✓	✓	✓	✓

New Wireless ZigBee® Technology empowers MicroScan SCADA



Example showing MicroScan Software and the 2100-A16 Remote Stations plus Sleeper for mobile monitoring:



www.intech.co.nz/zigbee

Z-2400 Series Common Specifications:

Wireless standard:	IEEE 802.15.4-2006.	Wireless Power:	1mW.
Wireless range:	Up to 100m max line of sight.	Power supply:	9~36Vdc.
Wireless Frequency:	2405~2485MHz.	Power Consumption:	5 VA.
Frequency Hopping:	16 Channels.		

MODEL	DESCRIPTION	PRICE
Z-2400-RB	Communications: RS232, RS422, RS485. Duty: Configurable as Base or Remote. Embedded protocol support: MicroScan default ASCII plus Modbus.RTU.	\$398.00
Z-2400-Sleeper	Universal channel data inputs: 2. Inputs: RTD/Tc/mV/V/mA/Pseudo Digital. Selectable update rate: 1,2,5,15,30,60 minutes. Embedded protocol support: MicroScan default ASCII plus Modbus RTU. Battery life: Approx 2 years life when wake up interval set to 2 minutes. Poor signal strength reduces battery life. Option to permanently power with plug pack power supply.	\$618.00
XU-USB	USB Programming Key for programming Z-2400-Sleeper. (Same as used for programming XU Series transmitters).	\$80.00
Z-2400-TCP	Communications: Ethernet TCP. Duty: Base only. Embedded protocol support: MicroScan.TCP plus Modbus.TCP.	\$748.00

2.4GHz high gain antennas available on page 35 >>

Note: ZigBee® is a Registered trademark of the ZigBee Alliance, Inc.

NEW Wireless MicroScan Connections - 2.4GHz High Gain Antennas

MODEL	DESCRIPTION	PRICE
ZB-OD24-5	ZigBee® Antennas 2.4GHz - Indoor 5.5dBi Omni Directional Rubber Duck Antenna.	\$65.00
ZB-OD24-8	Outdoor 8dBi Omni Directional Antenna c/w 3m coax cable.	\$275.00
ZB-PG24-15	Outdoor 15dBi Directional Parabolic Grid Antenna c/w 3m coax cable.	\$275.00
TL-OD24-8	Tel-Link Antennas 2.4GHz - Outdoor 8dBi Omni Directional Antenna c/w 3m coax cable.	\$275.00
TL-PG24-15	Outdoor 15dBi Directional Parabolic Grid Antenna c/w 3m coax cable.	\$275.00



Z-2400 Performance (2.4GHz).

- Indoor Urban: With Supplied Whip - Up to 100m.
- Outdoor Ideal* Conditions: With TL-OD24-8 - Up to 1.5km.
With TL-PG24-15 - Up to 4.5km.

Tel-Link Performance (2.4GHz).

- Outdoor Urban: With Supplied Whip - Up to 180m.
- Outdoor Ideal* Conditions: With TL-OD24-8 - Up to 5km.
With TL-OD24-15 - Up to 15km.

Notes:

- *Ideal conditions = mounted on 2 metre pole with line of sight and no surrounding trees or buildings, using supplied coax cable only.
- Test results show impressive distance results under ideal line of sight conditions. These distances are rapidly reduced when obstructions to 'line of sight' are experienced.
- Use only Intech ZB/TL Antennas with Intech wireless modules.
- For outdoor antennas, the supplied coax-seal must be used between exposed connections to protect from moisture corrosion.

Wireless MicroScan Connections - Tel-Link Radio Modems

The **Tel-Link Radio Modems** are used for long-range, high speed wireless communications.

Features:

- ◆ MicroScan can now collect data from previously uneconomic areas.
- ◆ 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 (1200 to 57600 Baud).
- ◆ 2.4GHz license-free ISM band (Industrial, Scientific and Medical).
- ◆ Certified for use in New Zealand, Australia, USA, Canada and Europe.
- ◆ FCC and ETSI approved MaxStream radio modules.
- ◆ 19.2 kbps over-the-air data rates.
- ◆ Up to 65,000 network addresses available.
- ◆ Spread spectrum over-the-air frequency hopping.
- ◆ Signal strength reporting for link quality monitoring and debugging.

www.intech.co.nz/tel-link

◆ **Note:** Tel-Link Radio Modems can also be used with the data loggers on pages 36 to 40 >>

MODEL	DESCRIPTION	PRICE
TL-4850-24	Tel-Link Radio Modem 2.4GHz - RS 485/422 Outdoor c/w Outdoor 3dBi whip Antenna and 2m data cable. Supplied with a stainless steel mounting bracket and U bolts. Power supply requirements: 12Vdc @ 300mA.	\$950.00
PSW-2-12-H	If you require a 12Vdc, 300mA power supply (100~264Vac Input).	\$132.00



Example of Possible Set-Up:

