ZXTx-IO-xxxx

Zlinx Xtreme Wireless 10

- ✓ IP67 Rated for Outdoor Applications
- √ Modbus Compatible
- ✓ Wide Operating Temperature
- **✓ AES Encryption**
- √900 MHz and 2.4 GHz Versions
- √-40 to 74°C Operating Temperature

Need to monitor remote assets via discrete analog and digital sensors? Need to control remote control equipment from your central SCADA/PLC? Is the remote equipment outdoor? Zlinx Xtreme I/Os can do the job faster, easier and less expensive than stringing cable. These compact and rugged units are ideal for outdoor applications in extreme weather conditions for connecting remote I/Os to local I/Os wirelessly (via Peer-to-Peer Mode) and to connect remote I/Os in multiple locations to a central PLC or SCADA or HMI system via a Serial Radio Modem (Via Modbus mode).

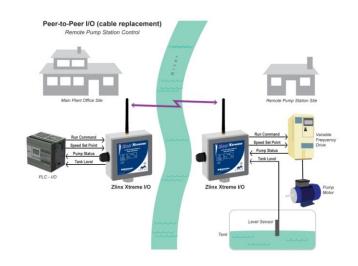
Zlinx [®] Industrial Wireless products operate in the licensifree, Proprietary RF 900 MHz and 2.4 GHz ISM band.

Select the 900 MHz version for longer distances. For further flexibility, the output power is software selectable.

The 900 MHz units offer 256 bit AES Encryption. The 2.4 GHz have 128 bit AES Encryption.







Ordering Information

Model Number Description

ZXT9-IO-222R2 ZLINX XTREME 900 MHZ IO 2 AI, 2A O, 2 DI, 2 DO ZXT24-RM ZLINX XTREME 2.4 GHZ IO 2 AI, 2A O, 2 DI, 2 DO

Accessories

Power Supply

CLG-60-24 IP67 Power Supply, Panel Mount, 24V DC

60 W

Spare Antenna

ZXT9-ANT 900 MHz Spare Antenna
ZZ24D-ANT1 2.4 GHz Spare Antenna
A full range of antennas and accessories is available. Visit

www.bb-electronics.com



Specifications

RF Properties		Digital Inputs	
Physical Standard	802.15.4	Voltage Range Configuration	0 to 48 VDC PNP (default) / NPN (selectable)
Frequency		Low Voltage (0)	1 VDC Maximum
ZXT9-IO-xxxx	900 MHz ISM (902-928 MHz)	High Voltage (1)	Greater than 1 VDC
ZXT24-IO-xxxx	2.4 GHz ISM (2.4 to 2.5 GHz)	Pull Up/Down (38 μA
Transmit Power	,	Current	·
ZXT9-IO-xxxx	1 mW, 10 mW, 100 mW, 500 mW 1 W – Software Selectable	Frequency Input	2 DIs per module software selectable as counters with 0 to 20 KHz range
ZXT24-IO-xxxx	10 mW, 16 mW, 25 mW, 30 mW		
	63 mW – Software Selectable		Digital Outputs (Relay)
Receiver Sensitivity	-100 dBm	Number of Relays	2
Over the Air Data Rate		Type	C (Normally Open and Normally Closed)
ZXT9-IO-xxxx	9.6 or 115.2 kbps	Output Connection	3 Terminals Per Relay
	Software Selectable	Cara Caracatica	(Common, NO, NC)
ZXT24-IO-xxxx	250 kbps	Com. Connection	3.5 mm Terminal Block
Outdoor Range	Cumplied Antonno 14 mi (22 km)	Dotings	250 VAC @ 4 A 20 VDC @ 4 A
ZXT9-IO-xxxx	Supplied Antenna 14 mi (23 km) High Gain Antenna 40 mi (64 km)	Ratings	250 VAC @ 4 A, 30 VDC @ 4 A
ZXT24-IO-xxxx	Supplied Antenna 1.5 mi (2.4 km)		nalog Inputs / Outputs
	High Gain Antenna 10 mi (16 km)	Ranges	0 to 5 VDC, 0 to 10 VDC, 0 to 20 mA
	on optimal RF conditions and an	Danalutian	4 to 20 mA
unobstructed line of sight	•	Resolution	16 bit (Inputs), 12 Bit (Outputs)
Transmission Method	FHSS	Al Load Resistance	100 MΩ - configured for Voltage
ZXT9-IO-xxxx ZXT24-IO-xxxx	DSSS	AO Output Current	250 Ω - configured for Current 1 mA maximum configured fro Voltage
Modulation	FSK	AO Source Load	450 Ω maximum configured for current
Channel Capacity	FSK	Input Protection	Over voltage to 2x max input voltage
ZXT9-IO-xxxx	10 hop sequences share 50	input i fotection	Over voltage to 2x max input voltage
2/19-10-	Frequencies		Power
ZXT24-IO-xxxx	12 Direct Sequence Channels		1 OWEI
Network Topologies	I/O to I/O: One-to-one (Peer-to-Peer mode)	Power Connector	Terminal Block
	Radio Modem to I/O: One-to-many (Modbus I/O mode)	Input Voltage	10 to 30 VDC
Encryption	(Modbus I/O Mode)	Power Use	
ZXT9-IO-xxxx	256 bit AES	ZXT9-IO-xxxx	6.8 W (maximum)
ZXT24-IO-xxxx	128 bit AES	ZXT24-IO-xxxx	4.5 W (maximum)
Supplied Antenna	120 511 7120	2712110 77007	Environment
ZXT9-IO-xxxx	Impedance – 50 Ω		Liviloimone
2,710 10 ,000	Connector – RPSMA Female	Dimensions	5.12x5.12x2.37 in /130.1x130.1x60.2 mm
	VSWR – 2.0 Max (in-band)	Operating Temp	-40 to 74°C (-40 to 165°F)
	Gain – 3 dBi	Storage Temp	-40 to 85°C (-40 to 185°F)
	Polarization – Vertical	Op Humidity	0 to 95% (Non-Condensing)
	Length - 7.8 in (198 mm)	Enclosure Rating	IP67
ZXT24-IO-xxxx	Impedance - 50Ω	Use	Indoor and Outdoor
	Connector – RPSMA Female		
	VSWR - 2.0 Max (in-band)		
	Gain – 2.1 dBi		Certifications
		CE	EN55022: 2006 - Class A
	Polarization – Vertical	CL	
	Length – 4.38 in (113 mm)	OL .	EN61000-6-1: 2006 - Heavy Industrial
Antenna Connection		GL.	EN61000-6-1: 2006 – Heavy Industrial EN61000-4-2:2008 – ESD
Antenna Connection	Length – 4.38 in (113 mm)	CL	EN61000-6-1: 2006 – Heavy Industrial EN61000-4-2:2008 – ESD EN61000-4-3:2006 – EFT
Antenna Connection	Length – 4.38 in (113 mm)		EN61000-6-1: 2006 – Heavy Industrial EN61000-4-2:2008 – ESD EN61000-4-3:2006 – EFT EN61000-4-6:2005 – Cond. Immunity
Antenna Connection	Length – 4.38 in (113 mm)	FCC	EN61000-6-1: 2006 – Heavy Industrial EN61000-4-2:2008 – ESD EN61000-4-3:2006 – EFT EN61000-4-6:2005 – Cond. Immunity Class A
Antenna Connection	Length – 4.38 in (113 mm)		EN61000-6-1: 2006 – Heavy Industrial EN61000-4-2:2008 – ESD EN61000-4-3:2006 – EFT EN61000-4-6:2005 – Cond. Immunity Class A FCC ID – ZXT9-RM – OUR-9XTEND
Antenna Connection	Length – 4.38 in (113 mm)		EN61000-6-1: 2006 – Heavy Industrial EN61000-4-2:2008 – ESD EN61000-4-3:2006 – EFT EN61000-4-6:2005 – Cond. Immunity Class A



Signal Strength

Receive Data

Transmit Data Programming Port

Power

Reset

Controls and Indicators

strength

USB

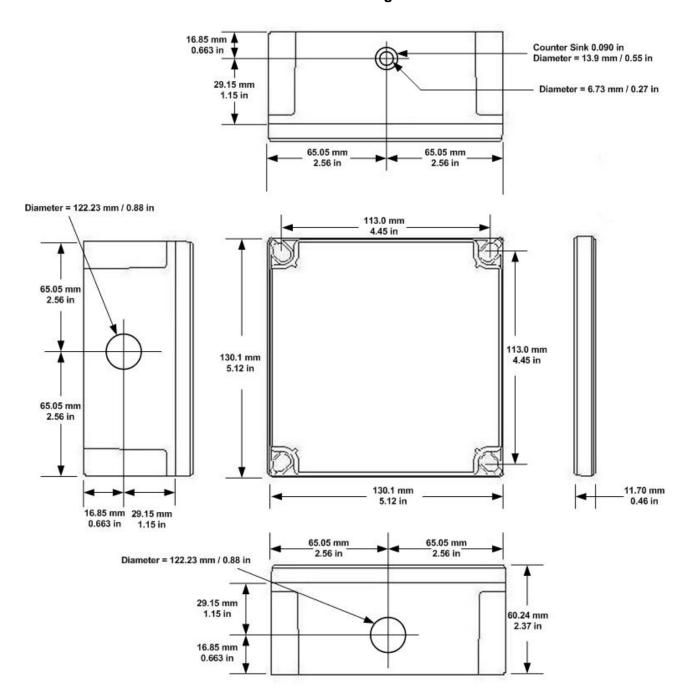
Green LED

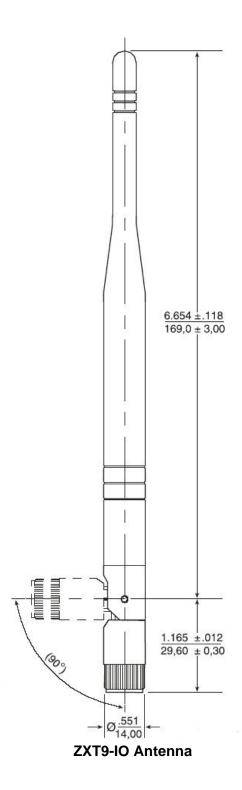
Green LED Green LED

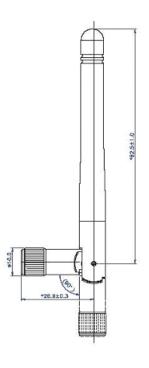
Push Button

8 Green RSSI LED's indicate signal

Dimensional Diagram







ZXT24-IO Antenna

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

B&B Electronics:

ZXT24-IO-222R2 ZXT9-IO-222R2