ZXTx-IO-xxxx

Zlinx Xtreme Wireless 10

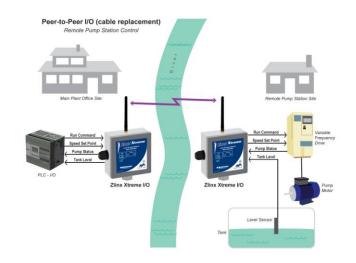
- ✓ IP67 Rated for Outdoor Applications
- √ Modbus Compatible
- ✓ Wide Operating Temperature
- **✓ AES Encryption**
- √900 MHz and 2.4 GHz Versions
- √-40 to 74°C Operating Temperature

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 licensi free, 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

International Headquarters: 815-433-5100 Fax 433-5104 www.bb-elec.com European Headquarters: +353 91 792444 Fax +353 91 792445 www.bb-europe.com



Specifications

RF Properties		Digital Inputs	
Physical Standard	802.15.4	Voltage Range	0 to 48 VDC
_		Configuration	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 μΑ
Transmit Power	4 11/4 40 11/4 400 11/4 500 11/4	Current	O.Dia and an about a few and a stable and
ZXT9-IO-xxxx ZXT24-IO-xxxx	1 mW, 10 mW, 100 mW, 500 mW	Frequency Input	2 DIs per module software selectable as
	1 W – Software Selectable		counters with 0 to 20 KHz range
	10 mW, 16 mW, 25 mW, 30 mW 63 mW – Software Selectable		Digital Outputs (Palay)
Receiver Sensitivity	-100 dBm	Number of Relays	Digital Outputs (Relay)
Over the Air Data Rate	-100 dBill	Type	C (Normally Open and Normally Closed)
ZXT9-IO-xxxx	9.6 or 115.2 kbps	Output Connection	3 Terminals Per Relay
2/19-10-	Software Selectable	Output Connection	(Common, NO, NC)
ZXT24-IO-xxxx	250 kbps	Com. Connection	3.5 mm Terminal Block
Outdoor Range	200 1000		o.o min Tomina Block
ZXT9-IO-xxxx	Supplied Antenna 14 mi (23 km)	Ratings	250 VAC @ 4 A, 30 VDC @ 4 A
_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	High Gain Antenna 40 mi (64 km)	95	
ZXT24-IO-xxxx	Supplied Antenna 1.5 mi (2.4 km)	Α	nalog Inputs / Outputs
	High Gain Antenna 10 mi (16 km)	Ranges	0 to 5 VDC, 0 to 10 VDC, 0 to 20 mA
Range estimates based of	on optimal RF conditions and an	S .	4 to 20 mA
unobstructed line of sight	· i.	Resolution	16 bit (Inputs), 12 Bit (Outputs)
Transmission Method		Al Load Resistance	100 MΩ - configured for Voltage
ZXT9-IO-xxxx	FHSS		250 Ω - configured for Current
ZXT24-IO-xxxx	DSSS	AO Output Current	1 mA maximum configured fro Voltage
Modulation	FSK	AO Source Load	450 Ω maximum configured for current
Channel Capacity		Input Protection	Over voltage to 2x max input voltage
ZXT9-IO-xxxx	10 hop sequences share 50		
	Frequencies		Power
ZXT24-IO-xxxx	12 Direct Sequence Channels		
Network Topologies	I/O to I/O: One-to-one (Peer-to-Peer	Power Connector	Terminal Block
	mode)		40 / 00 / 100
	Radio Modem to I/O: One-to-many	Input Voltage	10 to 30 VDC
Francisco	(Modbus I/O mode)	Damanillas	
Encryption	256 hit A56	Power Use	C Q M/(maximum)
ZXT9-IO-xxxx	256 bit AES	ZXT9-IO-xxxx	6.8 W (maximum) 4.5 W (maximum)
ZXT24-IO-xxxx Supplied Antenna	128 bit AES	ZXT24-IO-xxxx	Environment
ZXT9-IO-xxxx	Impedance – 50 Ω		Environment
ZA19-10-XXXX	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 74 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	000	macor and Catacor
	VSWR – 2.0 Max (in-band)		
	Gain – 2.1 dBi		Certifications
	Polarization – Vertical	CE	EN55022: 2006 – Class A
	Length – 4.38 in (113 mm)	_	EN61000-6-1: 2006 – Heavy Industrial
Antenna Connection	RPSMA Male		EN61000-4-2:2008 - ESD
			EN61000-4-3:2006 – EFT
			EN61000-4-6:2005 – Cond. Immunity
		FCC	Class A
			FCC ID - ZXT9-RM - OUR-9XTEND
			FCC ID – ZXT24-RM – OUR-XBEEPRO
		UL	C1D2, File – E245458



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Signal Strength

Receive Data

Transmit Data Programming Port

Power

Reset

Controls and Indicators

strength

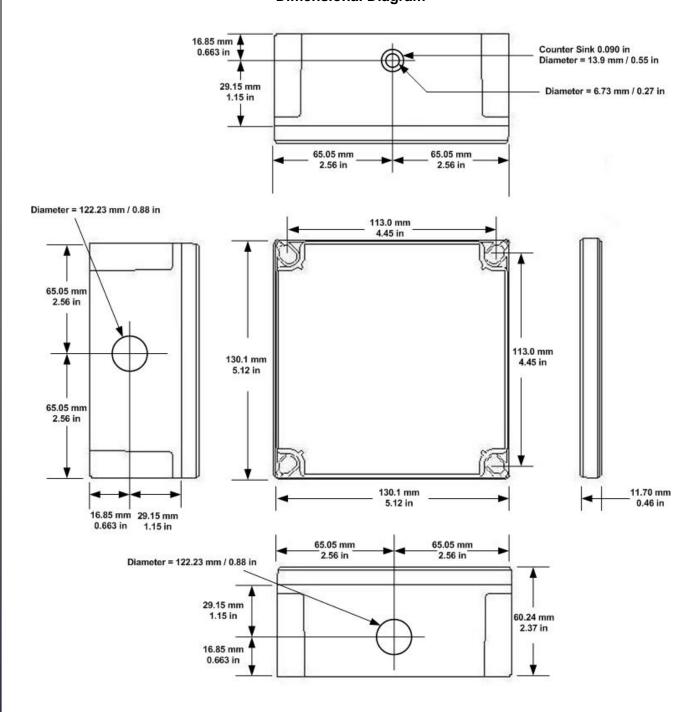
USB Push Button

Green LED

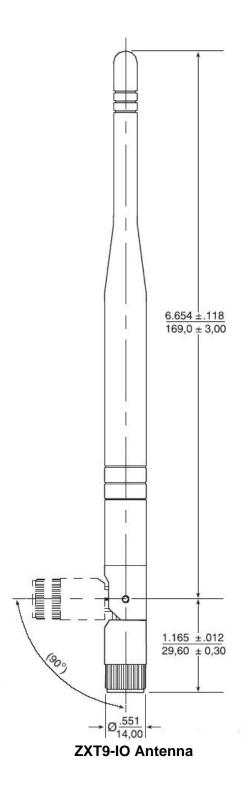
Green LED Green LED

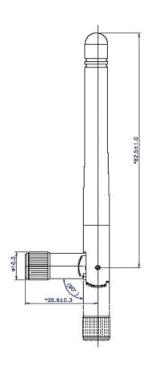
8 Green RSSI LED's indicate signal

Dimensional Diagram









ZXT24-IO Antenna

