WIRELESS



AIC WIRELESS BACNET MSTP AND BACNET IP WIRELESS TRANSCEIVER. WBT900. WBT900-IP

DESCRIPTION

The AIC Wireless WBT900-K and WBT900-IP-K transceivers allow you to install a close or long range, non line-of-sight, pointto-multipoint, wireless BACnet MSTP or BACnet IP network, at a fraction of the cost of installation labor. conduit and cable.

The WBT900-K and WBT900-IP-K transceivers are plug and play, requiring no special programming tools or network management software.

FEATURES

- 902-928 MHz frequency provides excellent non-line-ofsight performance to penetrate foliage, building walls, and floors
- Highest Quality of Service (QoS) available-synchronous point-to-multipoint protocol enables extremely low data latency and jitter
- 128 bit encrypted payload protection provides secure data delivery
- Simple plug-and-play setup with minimal configuration required
- Flexible input power, 12-24 VAC/DC
- Up to 50 mile range

ANTENNA SELECTION CHARTS

Antenna	Maximum Line-of-Sight*	Maximum Non-Line-of-Sight*
RD3DB	.25 mile	5 walls/300 feet
RD5DB	.5 mile	6 walls/500 feet
3dB Low Profile	.5 mile	6 walls/500 feet
3dB Base	5 miles	1500 feet w/ trees
6dB Base	20 miles	2000 feet w/ trees
6dB Yagi**	20 miles	1500 feet w/ trees
AIC10.5P	2 miles	1200 feet w/ trees
AIC12.5P	5 Miles	1300 feet w/trees
AIC11AW	20 miles	1200 feet w/ trees
AIC15AW	40 miles	1500 feet w/ trees

** Used only with WLD900 model This information is based on limited testing and is to be used as a guide in antenna selection.

SPECIFICATIONS

DEVICE OPERATION Supply Voltage

Comm Input/Output WBT900-K WBT900-IP-K Protocols Indication Display

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LED Mounting Wiring Power Comm. **WBT900-K WBT900-IP-K** Antenna **Operating Temperature Operating Humidity** Construction Enclosure Rating Dimensions

24 VAC/VDC @100ma (Isolated power required)

BACnet MS/TP **BACnet IP BACnet Signal** Dedicated LED and 9 segment display 2 digit channel indication (01-12) 1 digit Link Quality 4, (ŘFTX, RFRX, Link, Power) DIN rail

2 plug-in terminals

3 plug-in terminals & USB-B connector **BJ45 RPSMA** female -4° to 158°F (-20° to 70°C) 10 to 90% RH (non-condensing) Aluminum case w/DIN rail clip NEMA 1 4.30"H x 1.75"W x 3.35"D (10.9 x 8.5 x 4.45cm) Weight Warrantv RADIO Protocol Frequency

Modulation Transmit Power **Receiver Sensitivity Open Air Range**

RF Transmission time Data Throughput Server/Clients

Antenna Channels **Device Addresses** Programming **Repeater Capable** Compliance

0.65 lb (0.28 Kg) 1 Year

Proprietary 902-928 MHz (12 channel selectable) 256 bit encription Direct Sequence Spread Spectrum - (DSSS) 21 dBm (121mW), (4W EIRP w/15 dBi antenna) -97 dBm, (-112 dBm with 15 dBi antenna) See antenna selection table (1300' to 40 miles)

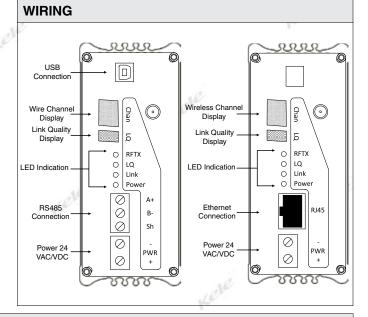
20 feet separation min. XMTR to RCVR 1.536 Mb/s 935 Kb/s Up to 16 Clients per Server, (Best results with 1 to 1) Remote (order separately) 12 channels fixed or auto selectable 17, however 2- (1 to 1) works best Direct to laptop Yes, Each unit can serve as a repeater FCC ID: R4N-AW900M, IC:5303AAW900M; RoHS

NBT900

NBT900 $\mathbf{\Lambda}$ RoHS FC

WBT900-K

WBT900-IP-K



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877-826-9037 USA kele.com ADDITIONAL SELECTION AVAILABLE ON KELE.COM

AIC WIRELESS BACNET MSTP AND BACNET IP WIRELESS TRANSCEIVER WBT900, WBT900-IP

WIRELESS

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ABLES		
Kele	Kele	Cale of
CC1 (Custom Cable 1) Length: 1 ft Use when connecting to another listed cable	ne	LMR600-15 Length: 15 ft Must be used with CC1
Cale of the	CC3 (Custom Cable 3) Length: 1 ft Used when connecting antenn directly to transceiver	a contraction
CC2 (Custom Cable 2) Length: 6 ft Must be used with CC1	Kele	LMR600-30 Length: 30 ft Must be used with CC1
	ORDERING INFORMATION	
MODEL WBT900-K WBT900-51 WBT900-IP-K WBT900-IP-51	DESCRIPTION Wireless BACnet MSTP Transceiver 900m MHz (Antenna not included) WBT900, CC 3 cable, WPENCL100808 NEMA 4X enclosure, 3DB LOW PROFILE antenna Wireless BACnet IP Transceiver 900 MHz (Antenna not included) WBT900-IP, CC 3 cable, WPENCL100808 NEMA 4X enclosure, 3DB LOW PROFILE antenna	
	ACCESSORIES	
3DB BASE 3DB LOW PROFILE 6DB BASE AIC11AW AIC12.5P AIC15AW CC1 CC2 CC3 COAX SURGE	3dB Base Station, Omni-Directional Antenna 3dB Low Profile Omni-Directional Antenna 6dB Base Station, Omni-Directional Antenna 9dB Yagi Antenna 12.5dBi Panel Antenna 13dB Yagi Antenna Custom cable, RPSMA – N-female bulkhead Custom cable, N-male to N-male, 6' (LMR195) Custom cable, N-male to N-male, 6' (LMR195) Coax surge suppressor, in-line	
LMR600-15 LMR600-30 POLE CLAMP RD3DB RD5DB WPENCL100804	LMR600 Cable, 15' with N-male connectors LMR600 Cable, 30' with N-male connectors Pole clamp assembly (for 3db and 6db base antenna) 3 dBi Rubber Duck Style Antenna 5 dBi Rubber Duck Style Antenna 10X8X4 NEMA 4X, Weatherproof enclosure with hinge	ed clear lid

FREE TECH SUPPORT

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