WIRELESS

AIC WIRELESS ETHERNET TRANSCEIVER

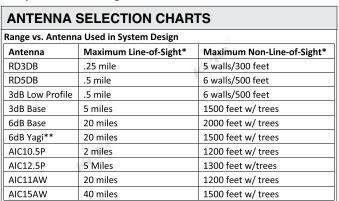




The AIC Wireless AIC900E-K Series of wireless ethernet devices are readily available for any building automation, control or monitoring application. The devices are a reliable lowcost alternative to long runs of communication cable to previously hard to reach locations, due to a lack of existing communications architecture. The AIC900E-K Series wireless devices are shipped ready to install, with a true plug-and-play set-up requiring no special programming or network management tools.

FEATURES

- 902-928 MHz frequency provides excellent non-line-ofsight performance to penetrate foliage, building walls, and floors
- Highest Quality of Service (QoS) availablesynchronous 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 40 mile range



*Range may vary based on terrain and noise environment

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

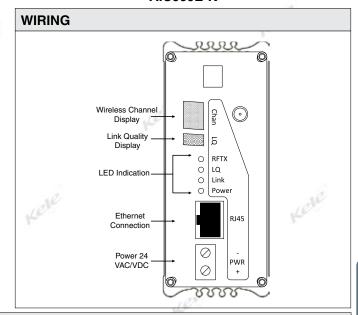












SPECIFICATIONS

DEVICE OPERATION Supply Voltage Comm Input/Output Protocols Default IP Password Indication Display

LED

24 VAC/VDC @100ma (Isolated power required) Any Ethernet signal into RJ45 Ethernet, 10/100 Base T

192.168.17.17, presents splash screen "password" [enter] to display radio stats and info

Dedicated LED and 9 segment display 2 digit channel indication (01-12) 1 digit Link Quality

4, (RFTX, RFRX, Link, Power) DIN rail

Mounting Wiring 2 plug-in terminals Power RJ45 Comm.

RPSMA female Antenna **Operating Temperature** -4° to 158°F (-20° to 70°C) Operating Humidity 10 to 90% RH (non-condensing) Aluminum case w/DIN rail clip Construction **Enclosure Rating** NEMA 1 4.30"H x 1.75"W x 3.35"D. Dimensions

(10.9 x 8.5 x 4.45 cm) 0.65 lb (0.28 Kg) Weight Warranty 1 Year

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

Proprietary

902-928 MHz (12 channel selectable), 128 bit encription

Direct Sequence Spread Spectrum - (DSSS)

21 dBm (121mW) -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)

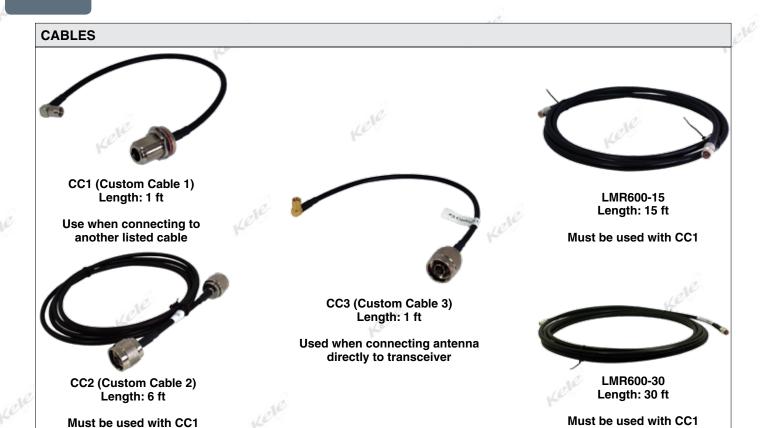
Remote (order separately) 12 channels fixed or auto selectable 17, however 2- (1 to 1) works best

Direct to laptop Yes. Each unit can serve as a repeater FCC ID: R4N-AW900M, IC:5303AAW900M,

RoHS



AIC WIRELESS ETHERNET TRANSCEIVER



ORDERING INFORMATION

MODEL	DESCRIPTION
AIC900E-K	Wireless Ethernet transceiver 900 MHz (Antenna not included)
AIC900-E-51	AIC900-E, CC3 cable, WPENCL100808 NEMA 4X enclosure, 3dB low profile antenna

3dB Base Station, Omni-Directional Antenna 3dB Low Profile Omni-Directional Antenna	765
3dR Low Profile Omni-Directional Antenna	
Jub Low Frome Offin Directional Antenna	765
6dB Base Station, Omni-Directional Antenna	765
9dB Yagi Antenna	765
12.5dBi Panel Antenna	765
13dB Yagi Antenna	765
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 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	765
5 dBi Rubber Duck Style Antenna	765
	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 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