

AI108-4 Wireless Bridge

(Specifications)

Radio			
Frequency Range	5.25-5.35 GHz license-exempt (FCC, Industry Canada, Mexico)		
Radio Type	Orthogonal Frequency Division Multiplexing (OFDM)		
Standards Compliance	IEEE 802.11a hardware with proprietary security extensions		
Total System EIRP and radio output power	30 dB or 1 Watt - FCC and Industry Canada. International: Radio output power maximum = 20dBm (Local regulations apply)		
Sensitivity	Data Rate	Sensitivity (dBm)	Modulation
	108 to 12Mbps	-71 to -82	16QAM, QPSK, BPSK
Antenna Type	Flat Panel Antenna, 18 dBi, +/-20° elevation adjustment . 24dBi version also available		
Installation	This product must be installed by a professional installer under FCC and Industry Canada regulations		



Range	
Industry Canada	Up to 2.5 miles (4km) with 18dBi panel antennas
FCC	Up to 2.5 miles (4km) with 18dBi panel antennas

Security	
Authentication and Privacy	MAC address link authentication and 152-bit data encryption

Configuration and Management	
Configuration Utility	Built-in webserver
Software Upgrades	Http download
Antenna Alignment Tool	Built-in RSSI (Signal / Noise) utility
LED Status Indicators (3)	Power, Ethernet Link and Activity, Radio Link and Activity

Outdoor to Indoor Unit Communications	
Cable Type	LMR-400
Cable Length	25ft. For other lengths, please contact AIRAYA
Cable Connectors	N-Type male to N-Type male

Interfaces	
RF (antenna) connector	N-Type female input
Wireless Bridge cable connector	N-Type female input
Ethernet	100/10Mbps Ethernet (RJ-45)

Electrical	
Power Input	100-240V Auto-ranging (50Hz~60Hz)
Power Output	3.3 V DC, 4 Amps

Mechanical Dimensions	
Outdoor Antenna	6 x 6 x 1 in 15.2 x 15.2 x 2.5 cm
Wireless Bridge	8.07 x 5.35 x 1.58 in, (20.5 x 13.6 x 4 cm)
Outdoor Antenna Mounting	Includes mast mounts and clamp kit for 1.9" (50mm) diameter thru 4.5" (115mm) diameter masts.

Environmental	
Operating Temperature	Wireless Bridge: 0°C to 55°C
Operating Humidity	5% to 95% non-condensing. Antennas are weather protected

Compliance and Certifications	
EMC	FCC Part 15, Industry Canada RSS-210
Safety	UL - Canada, USA
Environmental	Bellcore GR-63-CORE
Radio	FCC 15.407 (UNII), Industry Canada RSS-210