

# AL-IM2-80211

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# GATEWAY



## AL-IM2-80211 Generation 2 Gateway

The Trilogy® Networkx™ AL-IM2-80211 Generation 2 Gateway Module includes a bi-directional radio, and interfaces Networkx locks with a PC network with hardwire Ethernet and wireless 802.11. It is very similar in function to the original 802.11 Networkx Gateway Modules, but is enhanced with additional extended potential range, supporting up to seven (7) Expanders (model AL-IME2-EXP Expanders). Each Expander can extend the AL-IM2-80211 Gateway's coverage area by approximately 100 feet. (see range specs, right). Also both Generation 2 Gateways and matching Expanders have a new modern styling, internal antenna and three LED indicators, blending into any décor.

The AL-IM2-80211 Gateway supports up to 63 Networkx Locks, 7 AL-IME2-EXP Expanders and is addressable up to 99 groups. Each Group consists of one Version 2 Gateway and up to 7, AL-IME2-EXP Expanders.

The AL-IM2-80211 Gateway is powered by an AC adapter / 6VAC transformer (supplied).

## **AL-IM2-80211 Version 2 Gateway Specifications**

### **NETWORK INTERFACE**

- Interface: Ethernet, 10Base-T or 100Base-TX (using RJ45 Jack)
- Protocols: TCP/IP, UDP/IP, DHCP

### **802.11 WIRELESS SPECIFICATIONS**

- Wireless Standards: IEEE 802.11b; 802.11g
- Frequency Range: 2.412 - 2.484 GHz
- Output Power: 14 dBm + 1.5 dBm/-1.0 dBm
- Maximum Receive Level: -10dBm (with PER < 8%)

- Data Rates With Automatic Fallback: 54Mbps - 1Mbps
- Modulation Techniques: OFDM, DSSS, CCK, DQPSK, DBPSK, 64 QAM, 16 QAM

### **SECURITY**

- IEEE 802.11 - PSK with AES Encryption 128-bit
- Encryption:
- 128-bit AES Rijndael encryption

### **NETWORK RANGE**

- Gateway/Expander to Locks: Clear field range 500'. Typical indoor range, Networkx 75- 175'; ArchiTech Networkx 50 -125'. *Note: Actual range varies with building construction.*
- Gateway/Expander to Expander: Clear field range 500'. Typical indoor range, 75- 175'. *Note: Actual range varies with building construction.*

### **AL RADIO LINK**

- 900 MHz GFSK
- 50 Channels
- 10 mW power output

### **POWER**

- Peak Supply Current: 650 mA
- Input Voltage: 5 - 6 volts AC

### **AVERAGE POWER CONSUMPTION**

- 1300 mW (WLAN mode; maximum data rate)
- 300 mW (WLAN mode; idle)
- 750 mW (Ethernet Mode)

### **ENVIRONMENTAL**

- Operating Temperature: -20° to 60°C (-4° to 140°F)
- Storage Temperature: -40° to 85°C (-40° to 185°F)

### **PHYSICAL CHARACTERISTICS**

- Enclosure Size 4.5"H x 6.0"W x 1.94"D, 0.5lbs.

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