

# FAIRBANKS®

## FAIRBANKS ETHERNET BRIDGE WIRELESS CONNECTIVITY ACCESSORY



The Fairbanks Ethernet Bridge provides a point-to-point or point-to-multi-point IP connection without the expense and limitations of physical cabling.

### LONG-RANGE WIRELESS COMMUNICATIONS

Fairbanks' Ethernet Bridge replaces costly wiring with a solution that connects wirelessly to Fairbanks instrumentation and terminals, security cameras, access controllers and more. Fairbanks Ethernet Bridge communicates where Wi-Fi and other wireless data products fall short, because it offers:

- Range of up to 9.3 miles
- For outdoor or indoor use
- Added range and capability of the 2.4 GHz band

### MONITORING AND TROUBLESHOOTING

The Fairbanks Ethernet Bridge features a built-in spectrum analyzer, allowing users to monitor RF interference. Frequency agility enables the product to automatically select the best available radio channel at start-up, monitor the signal-to-noise ratio and move the network to a new channel if necessary. A web interface simplifies installation, allows users to monitor packet success and signal strength and facilitates remote troubleshooting.

### WEATHERPROOF

The Fairbanks Ethernet Bridge is housed in a weatherproof enclosure. It operates as paired units or single units for point-to-multi-point applications.

### FEATURES

- Easy-to-use web interface simplifies configuration and remote troubleshooting.
- Outdoor line-of-sight range up to two miles.
- AES encryption, FIPS 197 provides secure communication.
- Built-in NAT supports multiple IP client devices.
- Frequency agility ensures reliable connection between radios.
- Monitor RF interference with built-in spectrum analyzer.

### SPECIFICATIONS

|                                      |   |
|--------------------------------------|---|
| Outdoor/RF line-of-sight range . . . | Up to 9.3 miles (15,000 m)  |
| Transmit power output . . . . .      | 29 dBm  |
| RF data rate . . . . .               | Up to 54 Mbps   |
| Receiver sensitivity . . . . .       | -94 dBm   |
| Frequency band . . . . .             | 2.412 - 2.462 GHz   |
| Status LEDs . . . . .                | Power, LAN, WLAN, signal  |
| Antenna connector . . . . .          | SMA-RP x2   |
| Subscriber units . . . . .           | Up to 32  |
| Dimensions (L x W x H) . . . . .     | 4.4" x 1.9" x 10.1" (11.1 cm x 4.8 cm x 25.6 cm)  |
| Weight . . . . .                     | 1.1 lbs   |
| Power consumption . . . . .          | < 12 W  |
| Power connector . . . . .            | Use PoE injector  |
| Operating temperature . . . . .      | Radio/Enclosure: -20°C to 70° C<br>POE Injector/Power supply: 0° C to 40° C   |
| Weatherproofing . . . . .            | Ethernet Bridge is IP55 rated;<br>The PoE injector/power supply are not<br>weatherproof and must be installed indoors |
| FCC (U.S.A.) . . . . .               | Yes   |

### QuickFacts™

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Call toll-free for the Fairbanks representative nearest you:

**(800) 451-4107**

Internet Address: <http://www.Fairbanks.com>