

EB-6 PLUS™ Transceiver

HIGH-SPEED SERIAL & IP/ETHERNET DATALINK



Intuicom's EB-6 PLUS is a long-range, high-speed industrial wireless transceiver enabling both serial and IP connectivity. The EB-6 PLUS provides remote serial and IP data connectivity to IP based networks, enabling high performance data transport and mobile wireless access for vehicle based operations.

FUNCTIONALITY AND FLEXIBILITY

Providing Ethernet and dual serial port connectivity simultaneously, the EB-6 PLUS offers a single solution to a broad range of applications. With up to 867 Kbps of available bandwidth, the EB-6 PLUS is flexible enough to support legacy serials as well as the most current IP devices. Consistent with Intuicom's other transceivers, the EB-6 PLUS is multi-functional and may be operated as the access point, end-point or repeater in point-to-point, point to multipoint, and peer to peer communications.

"BEST-IN-CLASS" RF PERFORMANCE

Employing Intuicom's robust and secure frequency hopping spread spectrum technology, the EB-6 PLUS is inherently resistant to interference from other RF equipment including other spread spectrum radios. Empowered with an ultra sensitive and highly selective RF receiver, the EB-6 PLUS provides real-time, robust data transport. With top performance and security that includes 128-bit AES encryption, the EB-6 PLUS provides superior "real world" throughput and performance over other wireless products.

EASE OF USE

The EB-6 PLUS is compatible with Intuicom's CommPro™ software, which provides a complete toolset to assist in designing, configuring, monitoring and optimizing your wireless solutions. Going from the box to the field has never been easier.

Not only is the EB-6 PLUS easy to set-up, but Intuicom makes it simple to optimize the performance of each transceiver on the network after it has been installed in the field. An IP addressable embedded server hosts a dynamic web page that provides access to key parameter for on-demand remote configuration.

With proven performance in dense RF environments, Intuicom's wireless networks power through the congestion to provide reliable data transport where other technologies fall short.

FEATURES

- Ethernet and dual serial port interfaces
- 40+ mile range (LOS)
- Secure, license-free 902-928 MHz FHSS technology
- *Single Unit Operation™*: any unit may serve as an access point, end point or repeater
- 867 Kbps over the air data rates
- 128-bit AES Encryption
- Low power consumption
- Auto-crossover switching

APPLICATIONS

Traffic System Controls

Video Surveillance

Security Systems

High Speed Backbones

Mobile Data & Remote Access

Remote Asset Management

Remote Sensor Data Collection

To learn more about enabling wireless networking for your applications, please contact us at: info@intuicom.com or call (303) 449-4330



EB-6 Ethernet Bridge

HIGH SPEED IP/ETHERNET DATALINK

GENERAL SPECIFICATIONS

Enclosure	Ruggedized extruded aluminum
Size	H: 56.6 mm x W: 74.4 mm x L: 165.1 mm
Weight	463g.
Operating Temperature	-40° C to +60° C
Connectors/Signals	
External Antenna	N Type Female
Data	RJ-45 (Ethernet 10/100BaseT), DB-9 (RS-232/422/485)
Diagnostic	3-pin proprietary
Power	
Input Voltage	6-30 VDC
Operating Modes	
System Configurations	Point-to-Point, Point-to-Multipoint
Unit Operating Modes	Access Point, Repeater, End Point

WIRELESS TRANSCEIVER

Frequency Range	902 - 928 MHz
Transmitter	
Output Power	100 mW to 1 W (+30 dBm) ; Programmable
Range, Line of Sight	60 Miles at 614 Kbps 20 miles at 867 Kbps
Modulation	Spread Spectrum, GFSK
Occupied Bandwidth	1.88 MHz - Wide Band 611.2 KHz - Narrow Band
Spreading Method	Frequency Hopping / FCC DTS
Hopping Patterns	15 per band, 105 total, user selectable
Hopping Channels	39 - Wide Band 41 - Narrow Band
Hopping Bands	7, user selectable
Receiver	@12 VDC
Sensitivity	-102 dBm at 10 ⁻⁶ BER at 614 Kbps -100 dBm at 10 ⁻⁶ BER at 867 Kbps
Data Transmission	
Error Detection	32 Bit CRC, retransmit on error
Data Encryption	128-bit AES, Substitution, dynamic key
Data bit Rate	867 Kbps (point-to-point) 614 Kbps (point-to-multipoint)
Data Interface	10/100 BaseT; Serial: RS-232/422/485

NOTE: Specifications subject to change without notice

*Assumes 75% frequency availability, no repeater

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