

EB-58™ Broadband

5.8 GHZ BROADBAND CONNECTIVITY



Intuicom's EB-58 Broadband provides the highest data rates along with the most robust industry-established security features. Designed for high bandwidth, long range industrial applications, the EB-58 Broadband utilizes the 5.8 GHz frequency band to provide a full-featured, enterprise class transceiver.

FUNCTIONALITY AND FLEXIBILITY

Simple to operate, the EB-58 offers a single solution for a broad range of applications. Each unit is universally configurable as either an access point or endpoint, and each unit can operate within either point-to-point or point-to-multipoint topologies. With up to 108 Mbps of available bandwidth, the EB-58 Broadband is capable of meeting the highest bandwidths available.

"BEST-IN-CLASS" PERFORMANCE

Utilizing "best-in-class" OFDM-based technology, the EB-58 Broadband leads the marketplace in performance and efficiency.

Utilizing dynamic modulation techniques and auto-optimizing bandwidth allocation, the EB-58 is inherently resistant to interference from other RF equipment. With robust environmental specifications and security including WPA2 (with AES and TKIP) encryption the EB-58 Broadband provides superior "real world" throughput and performance.

EASE OF USE

Set-up has never been easier. Intuicom's set-up makes getting operational a straight-forward and simple process. The EB-58 includes utilities for site survey, antenna alignment, and auto discovery. The EB-58's ruggedized and weather-proof enclosures utilize Power-over-Ethernet (PoE) to ensure easy installation and quick deployment. Integrated antenna or external antennas options offer the flexibility to support a variety of installation requirements.

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

- Up to 108 Mbps data rates
- Up to 20 mile range (LOS)
- Extensive Security options including AES encryption
- 802.11a compatible
- OFDM technology
- Single Unit Operation™: any unit may serve as an access point or an endpoint
- Low power consumption
- Auto-crossover Ethernet
- IP67 and NEMA exceeding environment specifications
- Integrated Utility Suite to simplify set-up and operation

APPLICATIONS

Security Systems
 Video Surveillance/Monitoring
 High Speed Backbones
 T1/E1 Replacement
 Mobile Data & Remote Access
 Remote Sensor Data Collection
 Backhaul connectivity to legacy networks

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





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GENERAL SPECIFICATIONS

	Pole Mount with External Antenna	Integrated Antenna
Enclosure	Ruggedized Extruded Aluminum	Ruggedized Extruded Aluminum with polycarbonate radome (UV shielded)
Size	8.25" x 5.95" x 2.30"	13.3" x 13.3" x 1.7"; 9.85" x 10.25" x 2.7"
Weight	3.75 lbs.	5.15 lbs.
Environmental	IP 67 RoHS compliant	IP 67 RoHS compliant
Operating Temperature	-40° C to +85° C (optimized for lo/hi-temp)	-40° C to +85° C (optimized for lo/hi-temp)
Antenna	Omni, Sector or Panel	Integrated flat panel, 23 dBi gain
Power Requirements	Input: 100 to 240 VAC, Power over Ethernet (POE) injector with surge protection Consumption: 7 W maximum	
Interface	RJ45, 10/100 Base-T Ethernet	
Mode	Access Point, End Point and Repeater	

WIRELESS TRANSCEIVER

Transmit Power	26 dBm maximum	
Data Rates	1 Mbps to 108 Mbps	
Receive Specifications	1 Mbps	-98 dBm
	6 Mbps	-95 dBm
	9 Mbps	-93 dBm
	12 Mbps	-91 dBm
	18 Mbps	-90 dBm
	24 Mbps	-86 dBm
	36 Mbps	-83 dBm
	48 Mbps	-77 dBm
	54 Mbps	-74 dBm
Security	WEP, WPA, WPA2 (including AES and TKIP)	
Networking Features	Spanning Tree Protocol, DHCP, SNMP, Routing, QOS (802.11e/WMM), Peer Isolation and Bidirectional Multicast support	
Channel Size	5 MHz, 10 MHz, 20 MHz, 40 MHz (Turbo mode)	
Modulation	OFDM, Adaptive modulation	
Wireless Protocol	802.11a, Intuicom Proprietary	
Utilities	Site Survey Tool, Antenna Alignment Tool, Discovery Utility	
Wireless Approvals	FCC Part 15, IC RS210	

INTUICOM QUICK TURN-ON KITS

All Intuicom Broadband units include	POE Injector with surge protection 160 feet of Cat.5 or better Industrial Outdoor rated cable Pole Mounting Hardware Intuicom's highly recognized support
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Note: Specifications subject to change without notice. Visit www.intuicom.com for updates

INTUICOM RADIOS REQUIRE PROFESSIONAL INSTALLATION

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