

BroadBand Solutions 5GHz

5.150-5.825 GHz BROADBAND SPECIFICATIONS



OVERVIEW

The Intuicom 5GHz BroadBand Solution provides the highest data rates along with the most robust industry-established security features. Designed for high bandwidth and long range industrial applications, the 5GHz BroadBand Solution provides a full-featured enterprise class transceiver.

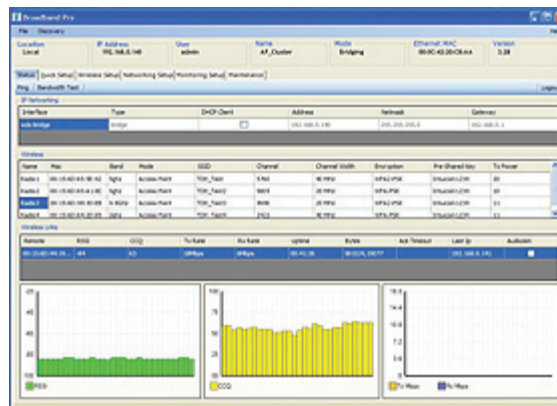
FUNCTIONALITY AND FLEXIBILITY

Utilizing best-in-class OFDM-based technology along with the 802.11a industry standard, the 5GHz BroadBand Solution leads the marketplace in performance and efficiency. Implementing dynamic modulation techniques and auto-optimizing bandwidth allocation, the 5GHz BroadBand Solution is inherently resistant to interference from other RF equipment. With robust environmental specifications and security that includes, WPA, WPA2 (802.11i), MAC and RADIUS authentication, the 5GHz BroadBand Solution provides superior "real world" throughput and performance.

BROADBAND PRO SOFTWARE

With Intuicom's BroadBand Pro™ software, configuring a wireless solution has never been easier. Intuicom's set-up makes getting operational a straight-forward and simple process. The 5GHz BroadBand Solution includes utilities for site survey, antenna alignment, and auto discovery.

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.



Above is a screen shot of Intuicom's BroadBand Pro software providing the status of an Intuicom network.

KEY FEATURES

- Up to 108Mbps
- 20+ mile range (LOS)
- Extensive Security options including WPA, WPA2 and MAC/RADIUS authentication
- 802.11a compatible
- OFDM technology
- Single Unit Operation™: any unit may serve as an Access Point, Repeater, Remote and Mesh
- IP67 and NEMA exceeding environment specifications
- Complete Utility Suite to simplify set-up and operation
- Available as: Integrated Antenna, Stand Alone and Access Point Cluster

APPLICATIONS

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

To learn more about Intuicom BroadBand Solutions and how to make your applications more productive, please contact us at: info@intuicom.com or call 303.449.4330

Intuicom

BroadBand Solutions 5GHz



5.150-5.825GHz BROADBAND SPECIFICATIONS

GENERAL SPECIFICATIONS

	Integrated	Stand-Alone	Access Point Cluster
Size	8.2" x 5.9" x 2.3" w/ antenna	11.0" x 9.7" x 4.7"	12.5" x 9.3" x 5.8"
Weight	4.0 lbs.	4.0 lbs. (1 unit)	7.9 lbs.
Power Requirements	10-28 VDC	10-28 VDC (up to 2 units)	38-56 VDC (4 units)
Number of Radio Units	1 unit	up to 4 units	4 units
Antenna Type	Panel (28 dBi)	Panel, Sector, Parabolic	Sector
Environmental	-45 to +85°C (IP67)	-45 to +85°C	-45 to +85°C

WIRELESS INTERFACE

Frequency Range	5.150 - 5.825GHz
Peak Transmit Power	28 dBm (600 mW)
Receive Sensitivity	-94 dBm to -74dBm
Channel Widths	5MHz, 10MHz, 20MHz, 40MHz
Modulations	OFDM, BPSK, QPSK, 16QAM, 64QAM
Protocols	802.11a, Proprietary

WIRELESS NETWORKING

Bursting	
Compression	
Dynamic Ack Timeout	
TLS EAP Method	
Passthrough EAP Method	
Hardware Retries	
Preamble Mode	
Periodic Calibration	
Disconnect Timeout	
Onfail Retry	
CSMA Disable	
Station Channel Scan List	

SECURITY

802.11i-WPA-PSK	
802.11i-WPA2-PSK	
802.11i-WPA-EAP	
802.11i-WPA2-EAP	
802.11i-TKIP	
802.11i-AES-CCM	
802.11i-802.1x	
802.11i-RSN	
Radius Authentication	
MAC Access Control List	

REGULATORY AGENCY CERTIFICATIONS

FCC Part 15.247	
Industry Canada RSS-210	
RoHS Compliant	

IEEE NETWORKING FEATURES

802.11e	WMM and QOS
802.11h	DFS and TPC
802.1d	Ethernet Bridging
802.1p	Traffic Prioritization
802.1q	VLAN
802.1s	Spanning Tree
802.1w	Rapid Spanning Tree
802.3-1998	Ethernet
802.3ab	Gigabit Ethernet (3 and 4 Radio Units)
802.3ac	Extended Frame Size for 802.1q & 802.1p Support
802.3ad	Link Aggregation/Port Bonding/Port Trunking
802.3i	10 Mbps Ethernet
802.3u	100Mbps Ethernet and Auto-Negotiation
802.3x	Full Duplex and Flow Control

ADDITIONAL NETWORKING FEATURES

OSPF	
FTP / TFTP	
HTTP	
Telnet	
SSH	
SNMP	
Syslog	
Routing	
Firewall / NAT	
NTP	
VPN	
DHCP Server / Client	

BROADBAND PRO SOFTWARE

IP Discovery Tool	
Local or Remote Configuration	
Network-Wide Diagnostics	
Bandwidth Test Tool	
Spectrum Analysis / AP Scan Tool	
Real-Time RSSI	
Client Connection Quality	
Audio Aiming Tool	
Configuration File Management	

Note: Specifications subject to change without notice. Visit www.intuicom.com for updates

INTUICOM RADIOS REQUIRE PROFESSIONAL INSTALLATION

INTUICOM INC.
1880 SOUTH FLATIRON COURT • BOULDER, CO 80301 • USA
T: 303-449-4330 • F: 303-449-4346
E-mail: info@intuicom.com • www.intuicom.com



BBS-5824



5.125-5.8 GHz BROADBAND with Embedded 2.4 GHz Wi-Fi

GENERAL SPECIFICATIONS

BBS-5824

Dimensions	8.2" x 5.9" x 2.3" w/ antenna
Weight	4.0 lbs.
PoE with Surge	10-28 VDC
Antenna Type	Integrated Panel
Environmental	-45 to +80°C (IP67)

Embedded 2.4 GHz

Frequency Range	2.4000 - 2.4835 GHz
Transmit Power	20dBm (100mW)
Receiver Sensitivity	802.11g: -87dBm to -69dBm 802.11b: -97dBm to -83dBm
Channel Width	5MHz, 10MHz, 20MHz, 40MHz
Modulation	802.11g: OFDM, 64QAM, 16QAM, QPSK, BPSK 802.11b: CCK, DSS, DQPSK, DBPSK
Protocols	802.11b and 802.11g

WIRELESS INTERFACE

Frequency Range	5.150 - 5.825GHz
Peak Transmit Power	28 dBm (600 mW)
Receive Sensitivity	-94 dBm to -74dBm
Channel Widths	5MHz, 10MHz, 20MHz, 40MHz
Modulations	OFDM, BPSK, QPSK, 16QAM, 64QAM
Protocols	802.11a, Proprietary

WIRELESS NETWORKING

Bursting
Compression
Dynamic Ack Timeout
TLS EAP Method
Passthrough EAP Method
Hardware Retries
Preamble Mode
Periodic Calibration
Disconnect Timeout
Onfail Retry
CSMA Disable

SECURITY

802.11i-WPA-PSK
802.11i-WPA2-PSK
802.11i-WPA-EAP
802.11i-WPA2-EAP
802.11i-TKIP
802.11i-AES-CCM
802.11i-802.1x
802.11i-RSN
Radius Authentication
MAC Access Control List
128/256 Encryption

REGULATORY AGENCY CERTIFICATIONS

FCC Part 15.247
Industry Canada RSS-210
RoHS Compliant

IEEE NETWORKING FEATURES

802.11e	WMM and QOS
802.11h	DFS and TPC
802.1d	Ethernet Bridging
802.1p	Traffic Prioritization
802.1q	VLAN
802.1s	Spanning Tree
802.1w	Rapid Spanning Tree
802.3-1998	Ethernet
802.3ab	Gigabit Ethernet (3 and 4 Radio Units)
802.3ac	Extended Frame Size for 802.1q & 802.1p Support
802.3ad	Link Aggregation/Port Bonding/Port Trunking
802.3i	10 Mbps Ethernet
802.3u	100Mbps Ethernet and Auto-Negotiation
802.3x	Full Duplex and Flow Control

BROADBAND PRO SOFTWARE

IP Discovery Tool
Local or Remote Configuration
Network-Wide Diagnostics
Bandwidth Test Tool
Spectrum Analysis / AP Scan Tool
Real-Time RSSI
Client Connection Quality
Audio Aiming Tool
Configuration File Management

ADDITIONAL NETWORKING FEATURES

OSPF
FTP / TFTP
HTTP
Telnet
SSH
SNMP
Syslog
Routing
Firewall / NAT
NTP
VPN
DHCP Server / Client

Note: Specifications subject to change without notice. Visit www.intuicom.com for updates

INTUICOM RADIOS REQUIRE PROFESSIONAL INSTALLATION

INTUICOM INC.
1880 SOUTH FLATIRON COURT • BOULDER, CO 80301 • USA
T: 303-449-4330 • F: 303-449-4346
E-mail: info@intuicom.com • www.intuicom.com

