

# BroadBand Solutions 2.4GHz

2.40-2.4835 GHz BROADBAND SPECIFICATIONS



## OVERVIEW

The Intuicom 2.4GHz 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 2.4GHz BroadBand Solution provides a full-featured enterprise class transceiver.

## FUNCTIONALITY AND FLEXIBILITY

Utilizing best-in-class DSSS/OFDM-based technology along with the 802.11b/g industry standard, the 2.4GHz BroadBand Solution leads the marketplace in performance and efficiency. Implementing dynamic modulation techniques and auto-optimizing bandwidth allocation, the 2.4GHz 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 2.4GHz 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 2.4GHz 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
- 802.11b/g compatible
- DSSS/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](mailto:info@intuicom.com) or call 303.449.4330

**Intuicom**

# BroadBand Solutions 2.4GHz



## 2.40-2.4835GHz 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 5.5"
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	1 - 2 units	4 units
Antenna Type	Integrated Panel	Panel, Omni, Parabolic	Sector
Environmental	-45 to +85 °C (IP67)	-45 to +85 °C	-45 to +85 °C

### WIRELESS INTERFACE

Frequency Range	2.40 - 2.4835GHz
Peak Transmit Power	28 dBm (600 mW)
Receive Sensitivity	-97 dBm to -74dBm
Channel Widths	5MHz, 10MHz, 20MHz, 40MHz
Modulations	DSSS/OFDM, BPSK, QPSK, 16QAM, 64QAM
Protocols	802.11b/g, 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	

### 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	
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](http://www.intuicom.com) for updates  
Rev. 2.0

INTUICOM RADIOS REQUIRE PROFESSIONAL INSTALLATION

INTUICOM INC.  
4900 NAUTILUS COURT SUITE 100 • BOULDER, CO 80301 • USA  
T: 303-449-4330 • F: 303-449-4346  
E-mail: [info@intuicom.com](mailto:info@intuicom.com) • [www.intuicom.com](http://www.intuicom.com)

