BroadBand Solutions 4.9GHz

802.11a/g 4.94-4.99GHz BROADBAND SOLUTIONS

OVERVIEW

The Intuicom 4.9GHz 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 4.9GHz BroadBand Solution provides a full-featured enterprise class transceiver.
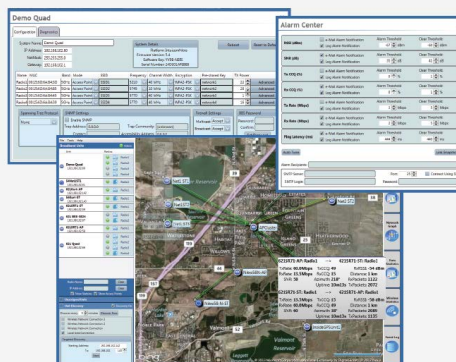
FUNCTIONALITY AND FLEXIBILITY

Utilizing best-in-class OFDM-based technology along with our proprietary protocol, the 4.9GHz Broad-Band Solution leads the marketplace in performance and efficiency. Implementing dynamic modulation techniques and auto-optimizing bandwidth allocation, the 4.9GHz 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 4.9GHz BroadBand Solution provides superior "real world" throughput and performance.

BROADBAND PRO SOFTWARE

With Intuicom's BroadBandPro™ software, configuring a wireless solution has never been easier. Intuicom's set-up makes getting operational a straight-forward and simple process. The 4.9GHz 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.

Automatically **Discover**, **Configure**, **Optimize**, and **Secure** Your Intuicom Wireless Network

KEY FEATURES

- Up to 54Mbps
- 20+ mile range (LOS)
- Extensive Security options including WPA, WPA2 and MAC/RADIUS authentication
- 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
- 2 Year Warranty

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

BroadBandPro™
Enterprise Management Software

Intuicom® Wireless Solutions

BroadBand Solutions 4.9GHz

802.11a/g 4.94-4.99GHz 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 unis	4 units
Antenna Type	Integrated Panel	Panel, Omni, Parabolic	Sector
Environmental	-40°C to +70°C (IP67)	-40°C to +70°C	-40°C to +70°C
Power Consumption	12W	12W	53W

WIRELESS INTERFACE

Frequency Range	4.94 - 4.99GHz
Peak Transmit Power	26 dBm (400 mW)
Receive Sensitivity	-96 dBm to -78dBm
Channel Widths	5MHz, 10MHz, 20MHz
Modulations	OFDM
Protocols	Proprietary
Dynamic Frequency Selection	Automatic or User Configurable

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 90Y
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

Intuicom®
Wireless Solutions