

BBS-5824

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



OVERVIEW

Intuicom's BBS-5824 provides the highest data rates along with the most robust industry-established security features. With an embedded 2.4 GHz radio for instant access to the BBS 5824, your network and even back to your control center, Intuicom Broadband solutions have never been easier.

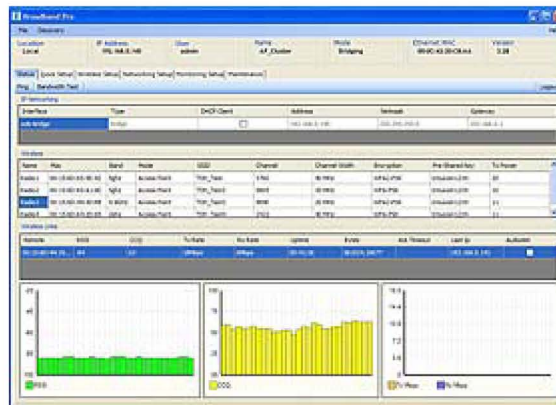
FUNCTIONALITY AND FLEXIBILITY

Utilizing best-in-class OFDM-based technology along with the 802.11a industry standard, Intuicom's BBS-5824 leads the marketplace in performance and efficiency. Utilizing dynamic modulation techniques and auto-optimizing bandwidth allocation, the BBS-5824 is inherently resistant to interference from other RF equipment. With robust environmental specifications and security that includes, WPA2, AES encryption and RADIUS authentication, the BBS-5824 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 BBS-5824 includes utilities for site survey, antenna alignment, and auto discovery.



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

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.

KEY FEATURES

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

2.4 GHz FEATURES

- Gain Wi-Fi Access to individual Broadband units, your entire network, and even back to the Traffic Control Center
- Reconfigure any Intuicom Broadband unit from your vehicle
- Remote Access to Cameras, Sensors, and other equipment
802.11 b/g Compliant

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



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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

