

Intuicom® Nitro58™

802.11a 5GHz BROADBAND SOLUTIONS



OVERVIEW

Intuicom continues its best-in-class tradition of wireless solutions with the Nitro58™ line of broadband products. At up to 108 Mbps (per radio module), this advanced wireless 802.11a solution provides industry-leading 600mW transmit power, extended range, and the high throughput demanded by today's bandwidth intensive applications. Other standard-setting features include an external status panel which combines Received Signal Strength Indicators (RSSI), power indicator, and a power-on reset button.

External RSSI LEDs simplify antenna alignment. Reset button saves valuable time.



FUNCTIONALITY & FLEXIBILITY

Intuicom Broadband Wireless Solutions emphasize “keep it simple”. Each unit is universally configurable as either an access point or endpoint, and each unit can operate within either point-to-point, point-to-multipoint, or mesh topologies.

Intuicom's Broadband Wireless Solutions are available in Stand-Alone (SA), Integrated, or Access Point Cluster configurations. Configuration and setup are straight forward and our tools provide the means to get a system up and running quickly.

Our solutions offer flexible configuration options to meet the specific needs and expectations across a broad spectrum of environments and applications.

KEY FEATURES

- 108/216/432 Mbps (max)
- 20+ mile range (LOS)
- 10/100/1000Mbps - Ethernet
- IEEE 802.3af/at PoE compliant
- Embedded GPS
- RSSI Indicators
- Reset Button
- IEEE 802.11a and Proprietary Wireless Protocol
- Orthogonal Frequency Division Multiplexing (OFDM) technology
- Single Unit Operation™ – any radio may be configured as an Access Point, Repeater, Remote, or Mesh Node
- Hardware Options: Integrated Panel Antenna, Stand Alone Enclosure and Access Point Cluster (Quad Radio)
- Simple set-up and operation
- Industrial Grade: IP67 and NEMA-exceeding environment specifications
- 2 Year Warranty

APPLICATIONS

- Traffic and ITS
- Security systems
- Video/surveillance monitoring
- Video backhaul
- High-speed backbones
- T1/E1 replacement
- Mobile data and remote access
- Remote sensor data collection

To learn more about Intuicom Broadband Solutions and how to make your applications more robust and easy to manage, contact broadband@intuicom.com or call 303-449-4330.



Intuicom[®] Nitro58[™]

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GENERAL SPECIFICATIONS

	Integrated	Stand-Alone	Access Point Cluster
PoE Standard	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3at-HP (60watts)
RF Data Rate (maximum)	108Mbps	108/216Mbps	432Mbps
Geolocation	Embedded GPS	Embedded GPS	Embedded GPS
Size	13.2" x 13.2" x 3.5"	8.6" x 8.6" x 3.8"	12.5"x9.3"x5.8"
Ethernet Interface	10/100/1000Base-T	10/100/1000Base-T	10/100/1000Base-T
Weight	4.0 lbs.	2.5 lbs.	8.5 lbs.
LED Indicators/Push Button	RSSI, Status, Power, Reset Button	RSSI, Status, Power, Reset Button	Power, Reset Button
Number of Radio Modules	1 RF module	1-2 RF modules	4 RF modules
Antenna Included	Panel	n/a	(4) Sector or (4) Panel
Antenna Connector	n/a	(1-2) Type-N(F)	(4) Type-N(F)
Environmental	-45 to +85 °C (IP67)	-45 to +85 °C (IP67)	-45 to +85 °C (IP67)

WIRELESS INTERFACE

Wireless Protocols	IEEE 802.11a and Proprietary
Frequency Range	5.150 - 5.825GHz
Peak Transmit Power	28dBm
Data Rate	108/216/432Mbps
Receive Sensitivity	-97 to -74dBm
Channel Widths	5, 10, 20, 40MHz
Modulations	OFDM, BPSK, QPSK, 16QAM, 64QAM
Topology	Point-to-Point, Point-to-Multipoint, Mesh
Dynamic Frequency Selection	Automatic or User Configurable

IEEE NETWORKING FEATURES

802.11e	WMM and QOS
802.11h	DFX 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
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	100 Mbps Ethernet and Auto-Negotiation
802.3x	Full Duplex and Flow Control

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

POE GIGABIT INJECTOR

(x1) 10/100/1000Base-T(X) PoE port
IEEE 802.3af/at/at-HP
Built-in Surge Protection
IEEE 802.3u for 100Base-TX
IEEE 802.3ab for 1000Base-T
Operating Temperature of -40 to +80C
Dimension of 125 x 75 x 38mm
LED Indicators (Power, Fault, Status)
Rigid IP-30 housing design

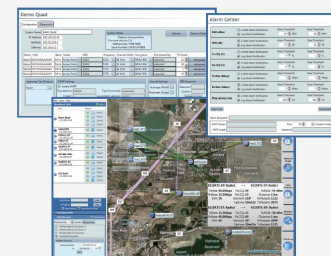
WIRELESS REGULATORY APPROVALS

FCC Part 15.247
Industry Canada RSS-210
RoHS Compliant

ADDITIONAL NETWORKING FEATURES

Dynamic Routing (OSPFv3, BGP+, RIP)
FTP, SSH, Telnet and Terminal capability
Sniffer and Fetch Tools
Firewall Management (address lists)
SNMP v1,2,3 Syslog
IPV6 support
DNS name servers
DHCP Server / Client / Relay

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



BroadBandPro
Enterprise Management Software

Note: Specifications subject to change without notice.
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INTUICOM RADIOS REQUIRE PROFESSIONAL INSTALLATION

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Intuicom[®]
Wireless Solutions