

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)
- Industry-leading software for simple set-up and operation
- Industrial Grade – IP67 and NEMA-exceeding environment specifications

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.

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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

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

INTUICOM RADIOS REQUIRE PROFESSIONAL INSTALLATION

Note: Specifications subject to change without notice.
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