

Intuicom® Nitro58™ n

802.11n 5GHz BROADBAND SOLUTIONS



OVERVIEW

Intuicom continues its best-in-class tradition of wireless solutions with the Nitro58™ line of broadband products. At up to 300Mbps, this advanced wireless 802.11n solution provides the extended range and higher 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 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

- Up to 600 Mbps (dual)
- Embedded GPS for easy mapping and positioning
- MIMO 2x2:2 support
- 20+ mile range (LOS)
- 10/100/1000Mbps - Ethernet
- IEEE 802.3af/at PoE compliant
- RSSI Indicators
- IEEE 802.11n and Proprietary Wireless Protocol
- Orthogonal Frequency Division Multiplexing (OFDM) technology
- Point-to-Point and Point-Multipoint functionality
- Simple set-up and operation
- Reset Button
- Industrial Grade: IP67 and NEMA-exceeding environment specifications
- 2 Year Warranty

APPLICATIONS

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

To learn more about Intuicom Wireless 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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802.11n 5GHz BROADBAND SOLUTIONS

GENERAL SPECIFICATIONS

| | Integrated NITRO-58n | Stand-Alone NITRO-SA58n | Stand-Alone Dual NITRO-SA58n58n |
|------------------------|-----------------------------------|-----------------------------------|---------------------------------|
| PoE Standard | IEEE 802.3af/at | IEEE 802.3af/at | IEEE 802.3af/at |
| Ethernet | 10/100/1000Base-TX | 10/100/1000Base-TX | 10/100/1000Base-TX |
| Geolocation | Embedded GPS | Embedded GPS | Embedded GPS |
| Size | 13.2" x 13.2" x 3.5" | 8.6" x 8.6" x 3.2" | 13.6" x 9.3" x 5.8" |
| Weight | 4.0 lbs. | 2.5 lbs. | 8.5 lbs. |
| LED Indicators/Control | RSSI, Status, Power, Reset Button | RSSI, Status, Power, Reset Button | Power, Reset Button |
| Antenna Included | Dual Polarized Panel | n/a | n/a |
| Antenna Connector | n/a | (x2) Type-N(F) | (x4) Type-N(F) |
| Environmental | -40 to +70 °C (IP67) | -40 to +70 °C (IP67) | -40 to 70 °C (IP67) |

WIRELESS INTERFACE

| | |
|-----------------------------|-------------------------------------|
| Wireless Protocols | IEEE 802.11a/n and Proprietary |
| Frequency Range | 5.150 - 5.825GHz |
| Average Transmit Power | 27dBm +/-2dBm |
| Data Rate | 300Mbps/600Mbps (dual) |
| Receive Sensitivity | -97 to -74dBm |
| Channel Widths | 20, 40MHz |
| Modulations | OFDM, BPSK, QPSK, 16QAM, 64QAM |
| MIMO | 2x2:2 |
| Topology | Point-to-Point, Point-to-Multipoint |
| Dynamic Frequency Selection | Automatic or User Configurable |

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 |
| 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 802.3at/af PoE
 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

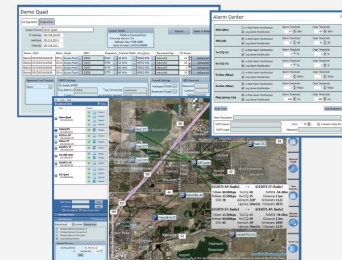
WIRELESS REGULATORY APPROVALS

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 namer 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