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. The Intuicom Nitro58™ line also includes an industry first: automatic GPS-based geo-location of units through new BroadbandPro™ 2.0 software, available only from Intuicom. Other standard-setting features include an external status panel which combines Received Signal Strength Indicators (RSSI), power indicator, and a reset button.

KEY FEATURES

- Up to 300 Mbps
- 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
- New, industry-leading software for simple set-up and operation
- Reset Button
- Industrial Grade – IP67 and NEMA exceeding environment specifications

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.
Intuicom

Nitro58™

802.11n 5GHz BROADBAND SOLUTIONS

GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>Integrated</th>
<th>Stand-Alone</th>
</tr>
</thead>
<tbody>
<tr>
<td>PoE Standard</td>
<td>IEEE 802.3af/at</td>
<td>IEEE 802.3af/at</td>
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<tr>
<td>Ethernet</td>
<td>10/100/1000Base-TX</td>
<td>10/100/1000Base-TX</td>
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<tr>
<td>Geolocation</td>
<td>Embedded GPS</td>
<td>Embedded GPS</td>
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<tr>
<td>Size</td>
<td>11&quot; x 9.7&quot; x 4.7&quot;</td>
<td>12.5&quot; x 9.3&quot; x 5.8&quot;</td>
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<tr>
<td>Weight</td>
<td>4.0 lbs.</td>
<td>7.9 lbs.</td>
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<tr>
<td>LED Indicators/Control</td>
<td>RSSI, Status, Power, Reset Button</td>
<td>RSSI, Status, Power, Reset Button</td>
</tr>
<tr>
<td>Antenna Included</td>
<td>Dual Polarized Panel</td>
<td>n/a</td>
</tr>
<tr>
<td>Antenna Connector</td>
<td>n/a (x2) Type-N(F)</td>
<td>n/a</td>
</tr>
<tr>
<td>Environmental</td>
<td>-45 to +85°C (IP67)</td>
<td>-45 to +85°C (IP67)</td>
</tr>
</tbody>
</table>

WIRELESS INTERFACE

Wireless Protocols: IEEE 802.11a/n and Proprietary
Frequency Range: 5.150 - 5.825GHz
Average Transmit Power: 27dBm +/-2dBm
Data Rate: 300Mbps (MCS 0 - 15)
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

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

IEEE NETWORKING FEATURES

802.11e WWAN 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 & B 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

WIRELESS REGULATORY APPROVALS

FCC Part 15.247
Industry Canada RSS-210
RoHS Compliant

BROADBAND PRO 2.0 SOFTWARE

Advanced Mapping with Network Alert Reporting
GPS Geolocation of Radios (an industry first)
Self-Organizing Network Tree
Drag and Drop Radio Configuration Tool
IP Discovery Tool and Conflict Resolution
Color Coded Icons display Radio Type, Network Topology and Health Status
Local or Remote Configuration
Network-Wide Diagnostics
Bandwidth Test Tool
Spectrum Analysis/Scan Tool
Real-Time RSSI
Client Connection Quality
Audio Aiming Tool
Advanced User Control (Expert Mode)

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 server
DHCP Server / Client / Relay

Note: Specifications subject to change without notice. PoE Gigabit Injector sold separate.
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INTUICOM RADIOS REQUIRE PROFESSIONAL INSTALLATION