

Intuicom® Nitro58™

802.11n 5GHz BROADBAND SOLUTIONS



OVERVIEW

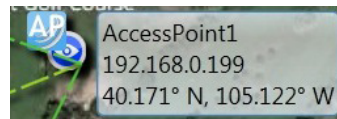
Intuicom continues its best-in-class tradition of wireless solutions with the Nitro58™ line of broadband products. At up to 300Mbps, this advanced wireless 802.11n solution provides the extended range and higher throughput demanded by today's bandwidth intensive applications. The Intuicom Nitro58™ line 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.



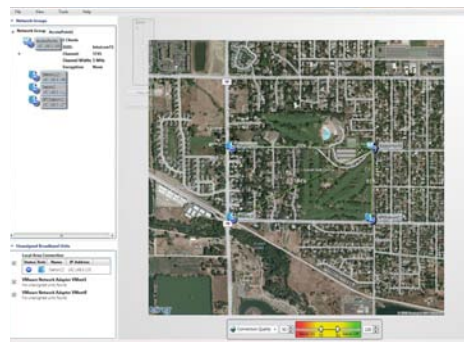
External RSSI LEDs simplify antenna alignment. Reset button saves valuable time.

NEW BROADBANDPRO™ 2.0 SOFTWARE

The all new version of Intuicom's BroadbandPro software includes advanced mapping capabilities and industry-firsts such as automatic GPS-based location and display, self-organizing network discovery, and more. All while maintaining the unsurpassed ease-of-use of previous versions.



GPS automatically maps network —no manual entry and always up-to-date



New Broadband Pro™ 2.0 includes advanced mapping and self-organizing network discovery.

KEY FEATURES

- Up to 300 Mbps
- Embedded GPS for easy mapping and positioning
- Embedded GPS
- 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 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
PoE Standard	IEEE 802.3af/at	IEEE 802.3af/at
Ethernet	10/100/1000Base-TX	10/100/1000Base-TX
Geolocation	Embedded GPS	Embedded GPS
Size	11" x 9.7" x 4.7"	12.5" x 9.3" x 5.8"
Weight	4.0 lbs.	7.9 lbs.
LED Indicators	RSSI, Status, Power	RSSI, Status, Power
Antenna Included	Dual Polarized Panel	n/a
Antenna Connector	n/a	(x2) Type-N(F)
Environmental	-45 to +85°C (IP67)	-45 to +85°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 (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

WIRELESS REGULATORY APPROVALS

FCC Part 15.247
 Industry Canada RSS-210
 RoHS Compliant

BROADBAND PRO SOFTWARE

Advanced Mapping
 GPS Geolocation of Radios (an industry first)
 Self-Organizing Network Discovery and Display (and industry first)
 IP Discovery Tool
 Auto IP Conflict Resolution Help (an industry first)
 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

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

PoE UNMANAGED SWITCH

(x4) 10/100/1000Base-T(X) PoE ports
 IEEE 802.3at/af PoE
 IEEE 802.3 for 10Base-T
 IEEE 802.3u for 100Base-T
 IEEE 802.3ab for 1000Base-T
 IEEE 802.3az (GREEN-Energy Efficient Ethernet)
 LED Indicators (Power, Fault, Status)
 Rigid IP-30 housing design
 DIN-Rail and wall mounting enabled
 Operating Temperature of -40 to +80°C
 Dimension of 1.03" x 3.74" x 5.68"

ADDITIONAL NETWORKING FEATURES

Routing Standards (OSPF, BGP, RIP)
 FTP/TFTP, HTTP
 Telnet
 SSH Client
 SNMP v1,v2
 Syslog
 Firewall, NAT
 DHCP Server / Client / Relay

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

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