



Traffic & Intelligent Transportation

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Whether it is serial or Ethernet communications, broadband for video, or contact closure, Intuicom has the wireless solution and expertise to meet the demands of your application. Intuicom introduced its "Best in Class" performance into the Traffic and Transportation market at the end of the last decade. Since then, Intuicom has demonstrated its superior wireless communications performance for a variety of applications in Traffic Control and Intelligent Transportation. Today we provide complete solutions to this market with equipment, software, and service that remains unmatched.

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|------------------------|------|---------------------|
| * Industrial Serial | for: | - Signal Control |
| * Industrial Ethernet | | - Wireless Video |
| * Broadband Ethernet | | - Vehicle Detection |
| * Contact Closure | | - Gate Closure |
| * AVL/Asset Management | | - Pre-emption |

Intuicom Support

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Reseller Opportunities

Intuicom offers a compelling proposition to value added resellers and integrators. We are interested in adding quality companies to our Reseller Partner Network. If you are interested in becoming an authorized reseller or installer, please fill out our [reseller contact form](#).

Communicator II

WIRELESS DATA TRANSCEIVER



The Communicator II™ is a high performance wireless data transceiver designed for industrial serial and serial to IP networks. The Communicator II enables long-range wireless connectivity at high bandwidths for robust and secure wireless communications for a broad set of fixed and mobile applications.

FUNCTIONALITY AND FLEXIBILITY

The Communicator II offers the capability and flexibility to meet a variety of wireless networking challenges. Available in 902-928 MHz and 2.4-2.4835 GHz frequencies, the Communicator II offers license-free operation in North America and many other locations around the world. Utilizing superior frequency hopping spread spectrum (FHSS) technology, the Communicator II provides long-range data transport with continuous throughput of up to 115 Kbps. Designed for functionality, the Communicator II offers the flexibility to provide point-to-point communications or more advanced multipoint and IP- bridged network applications.

Robust and highly reliable performance is achieved through superior low signal performance. Low power consumption and user-definable operating parameters provide optimal performance for a wide variety of applications.

The Communicator II's rugged enclosure, extreme temperature range and broad scale of voltage inputs make it the clear choice for many harsh industrial environments.

SCALABLE NETWORK SOLUTION

Used within an Intuicom wireless network, the Communicator II can meet the needs of both small and complex communication challenges.

Ease of integration, robust performance, an optional IP interface, and a strong set of support tools including real-time diagnostics provide for rapid deployment. Within an Intuicom Network, the Communicator II is typically used in conjunction with Intuicom's network server software as a network gateway base station or as a bi-directional repeater. The Communicator II may also be used for remote device interface in network architectures involving a single serial interface at the remote node.

APPLICATIONS

Whether providing data acquisition and control or real-time vehicle tracking, the Communicator II can support fixed or mobile communication needs. Some common commercial and industrial applications include:

- Scientific and Environmental Monitoring
- SCADA
- Telemetry
- Display signs
- Traffic signal control
- Security
- Vehicle data/tracking

To learn more about enabling wireless networking for your applications, contact us at: info@intuicom.com

FEATURES

- License-free operation
- Data throughput up to 115.2 Kbaud
- Long range operation (60+ miles)
- Full duplex communications
- Ability to operate in different modes including base station, repeater, slave and slave/repeater
- Low power consumption
- Network-wide diagnostics
- Rugged industrial enclosure

FEATURES OF INTUICOM WIRELESS DATA NETWORKS

- Available bundled with a variety of Intuicom products and solutions
- Network coverage ranges from facility to state-wide levels
- Optional TCP/IP data streams provide a standard interface
- Intuicom expertise for planning and design of wireless networks

EB-6 PLUS™ Transceiver

HIGH SPEED IP/ETHERNET DATALINK



Intuicom's EB-6 PLUS is a long-range, high-speed industrial wireless transceiver enabling both IP and serial connectivity. The EB-6 PLUS provides remote serial and IP data connectivity to IP based networks, enabling high performance data transport, positioning and access for fixed or mobile operations.

FUNCTIONALITY AND FLEXIBILITY

Providing Ethernet and dual serial port connectivity simultaneously, the EB-6 PLUS offers a single solution to a broad range of applications. With up to 867 Kbps of available bandwidth, the EB-6 PLUS is flexible enough to support legacy serials as well as the most current IP devices. Consistent with Intuicom's other transceivers, the EB-6 PLUS is multi-functional and may be operated as the access point, end-point, repeater, or endpoint/repeater in point-to-point and point-to-multipoint communications.

"BEST-IN-CLASS" RF PERFORMANCE

Employing Intuicom's robust and secure frequency hopping spread spectrum technology, the EB-6 PLUS is inherently resistant to interference from other RF equipment including other spread spectrum radios. Empowered with an ultra sensitive and highly selective RF receiver, the EB-6 PLUS provides real-time, robust data transport. With top performance and security that includes 128-bit AES encryption, the EB-6 PLUS provides superior "real world" throughput and performance over other wireless products.

EASE OF USE

Intuicom's embedded web-based set-up makes getting up and running a straight-forward and simple process. Not only is the EB-6 PLUS easy to set-up, but Intuicom makes it simple to optimize the performance of each transceiver on the network after it has been installed in the field. An IP addressable embedded server hosts a dynamic web page that provides diagnostics, performance criteria and access to key parameters for on-demand remote configuration.

With proven performance in dense RF environments, Intuicom's wireless networks power through the congestion to provide reliable data transport where other technologies fall short.

To learn more about enabling wireless networking for your applications, please contact us at: info@intuicom.com or call (303) 449-4330

KEY FEATURES

- Ethernet and dual serial port interfaces
- 40+ mile range (LOS)
- Secure, license-free 902-928 MHz FHSS technology
- Single Unit Operation™: any unit may serve as an access point, end point or repeater
- 867 Kbps over the air data rates
- 128-bit AES Encryption
- RADIUS compliant authentication
- Low power consumption
- Auto-crossover switching
- Optional embedded GPS

APPLICATIONS

- Traffic system controls
- Video surveillance
- Security systems
- High speed backbones
- Mobile data & remote access
- Remote asset management
- AVL/Vehicle tracking
- Remote sensor data collection

Communicator-T

WIRELESS TRAFFIC INTERCONNECT TRANSCEIVER



The Communicator-T is a high performance wireless traffic interconnect link designed for long range, high speed, error-free communications. Compatible with most traffic signal control systems, the Communicator-T provides a cost efficient alternative to traditional hard-wire infrastructure and can be rapidly deployed in either permanent or interim installations.

CONTROLLER COMPATIBILITY

Intuicom makes it easy to integrate wireless "comm" capabilities that satisfy both legacy and new traffic interconnect requirements. Using a single slot in a loop detector card rack, the Communicator-T plugs into and draws power from industry standard controllers (170, 2070, NEMA).

NETWORK FLEXIBILITY

Providing up to 115 Kbps of available bandwidth, a Communicator-T network is scalable to facilitate dynamic systems integration requirements. The network can support an unlimited number of Communicator-T units and offers a broad range of end-user configurable parameters and data (RS-232, RS-485, or RS-422) transport requirements. Designed for flexibility, the rugged Communicator-T can be operated in point-to-point or point-to-

multipoint mode. In addition to operating as a master, slave, or a single radio repeater, any radio can perform both slave and repeater functions!

SYSTEM MANAGEMENT

To simplify management of your Communicator-T system, Intuicom provides network-wide diagnostics and spectrum analysis tools for monitoring and optimizing system performance. Data transfer performance, signal strength, and noise figures are among the many comprehensive parameters that can be monitored.

"BEST-IN-CLASS" RF PERFORMANCE

Employing secure, frequency hopping spread spectrum technology; the Communicator-T is inherently resistant to interference from other communications equipment, including other spread spectrum radios.

Empowered with an ultra sensitive and highly selective, digitally filtered RF receiver, the Communicator-T provides real-time, robust communication links with 32-bit CRC error correction. The Communicator-T is capable of delivering the maximum effective radiated output power allowable by the FCC for unlicensed operation—the benefit of which is realized in exceptional RF propagation characteristics with up to 60 miles range (LOS).

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FEATURES

- 60+ mile range ("best-in-class" performance)
- 115.2 Kbaud throughput with 32-bit CRC, error correction
- Compatible with 170, 2070, & NEMA controllers
- RS-232/485/422 std.
- Secure 900 MHz or 2.4 GHz FHSS technology
- FCC maximum allowable RF output power for license-free operation
- Full or half duplex
- Master, slave, or slave/repeater operation
- Remotely configurable
- Network-wide diagnostics
- -40°C to +75°C operation
- 2 year warranty
- Made in USA

EB-58™ Broadband

5.8 GHZ BROADBAND CONNECTIVITY



Intuicom's EB-58 Broadband provides the highest data rates along with the most robust industry-established security features. Designed for high bandwidth, long range industrial applications, the EB-58 Broadband utilizes the 5.8 GHz frequency band to provide a full-featured, enterprise class transceiver.

FUNCTIONALITY AND FLEXIBILITY

Simple to operate, the EB-58 offers a single solution for a broad range of applications. Each unit is universally configurable as either an access point or endpoint, and each unit can operate within either point-to-point or point-to-multipoint topologies. With up to 108 Mbps of available bandwidth, the EB-58 Broadband is capable of meeting the highest bandwidths supported within the 802.11a standard.

"BEST-IN-CLASS" PERFORMANCE

Utilizing best-in-class OFDM-based technology along with the 802.11a industry standard, the EB-58 Broadband leads the marketplace in performance and efficiency.

Utilizing dynamic modulation techniques and auto-optimizing bandwidth allocation, the EB-58 is inherently resistant to interference from other RF equipment. With robust environmental specifications and security that includes, WPA2, AES encryption and RADIUS authentication, the EB-58 Broadband provides superior "real world" throughput and performance.

EASE OF USE

Set-up has never been easier. Intuicom's set-up makes getting operational a straight-forward and simple process. The EB-58 includes utilities for site survey, antenna alignment, and auto discovery. The EB-58's ruggedized and weather-proof enclosures and Power-over-Ethernet (PoE) to ensure easy installation and quick deployment. Integrated antenna or external antennas options offer the flexibility to support a variety of installation requirements.

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FEATURES

- Up to 108 Mbps data rates
- 20+ mile range (LOS)
- Extensive Security options including AES encryption, and RADIUS authentication
- 802.11a compatible
- OFDM technology
- Single Unit Operation™: any unit may serve as an access point or an endpoint
- Low power consumption
- Auto-crossover switching
- IP67 and NEMA exceeding environment specifications
- Complete Utility Suite to simplify set-up and operation

APPLICATIONS

Security Systems
 Video Surveillance/Monitoring
 High Speed Backbones
 T1/E1 Replacement
 Mobile Data & Remote Access
 Remote Sensor Data Collection
 Backhaul connectivity to legacy networks

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