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
EB-6 PLUS™ Transceiver

**GENERAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure</td>
<td>Ruggedized extruded aluminum</td>
</tr>
<tr>
<td>Size</td>
<td>H: 59 mm x W: 74 mm x L: 165 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>427 g</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40° C to +60° C</td>
</tr>
<tr>
<td>Connectors</td>
<td></td>
</tr>
<tr>
<td>External Antenna</td>
<td>TNC-F</td>
</tr>
<tr>
<td>Data Interface</td>
<td>Ethernet: 10/100 BaseT, RJ45 (auto crossover)</td>
</tr>
<tr>
<td></td>
<td>COM1: RS232/422/485, DB9-F</td>
</tr>
<tr>
<td></td>
<td>COM2: RS232/422/485, DB9-F</td>
</tr>
<tr>
<td>Power (at 12 VDC)</td>
<td>&lt; 150 mA Receive; &lt; 550 mA Transmit; 71 mA Idle</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>6-30 VDC</td>
</tr>
<tr>
<td>Operating Modes</td>
<td></td>
</tr>
<tr>
<td>Network Configurations</td>
<td>Point-to-Point, Point-to-Multipoint</td>
</tr>
<tr>
<td>Unit Operating Modes</td>
<td>Access Point, Repeater, End Point, Repeater/End Point</td>
</tr>
<tr>
<td>Unit Configurations</td>
<td>Access Point (Ethernet and/or serial), End Point (Ethernet and/or serial)</td>
</tr>
</tbody>
</table>

**WIRELESS TRANSCIEVER**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>902 - 928 MHz (FHSS/FCC DTS)</td>
</tr>
<tr>
<td>Transmitter</td>
<td></td>
</tr>
<tr>
<td>Output Power</td>
<td>5 mW to 1 W; Programmable</td>
</tr>
<tr>
<td>Range, Line of Sight</td>
<td>40 Miles / 15 Miles dependent on configuration</td>
</tr>
<tr>
<td>Modulation</td>
<td>2-level GFSK</td>
</tr>
<tr>
<td>Occupied Bandwidth</td>
<td>611.2 KHz</td>
</tr>
<tr>
<td>Spreading Method</td>
<td>Frequency Hopping/FCC DTS</td>
</tr>
<tr>
<td>Hopping Patterns</td>
<td>15 per band, 105 total, user selectable</td>
</tr>
<tr>
<td>Hopping Channels</td>
<td>41</td>
</tr>
<tr>
<td>Frequency Zones</td>
<td>16 Zones, 2-3 Channels per Zone</td>
</tr>
<tr>
<td>Receiver</td>
<td></td>
</tr>
<tr>
<td>Sensitivity</td>
<td>-102 dBm at 10^6 BER at 614 Kbps</td>
</tr>
<tr>
<td></td>
<td>-96 dBm at 10^6 BER at 867 Kbps</td>
</tr>
<tr>
<td>Data Transmission</td>
<td></td>
</tr>
<tr>
<td>Error Detection</td>
<td>32 Bit CRC, retransmit on error</td>
</tr>
<tr>
<td>Data Encryption</td>
<td>128-bit AES, Proprietary Spread Spectrum Technology</td>
</tr>
<tr>
<td>Authentication</td>
<td>Central Authentication and RADIUS compliant</td>
</tr>
<tr>
<td>Ethernet Interface</td>
<td>802.3, IPv4, TCP, UDP, DHCP, ICMP, ARP, TFTP, DNP3 over TCP, VLAN (1)</td>
</tr>
<tr>
<td></td>
<td>802.3u, Fast Ethernet, RJ-45</td>
</tr>
<tr>
<td>Data Rate* (over the air)</td>
<td>867 Kbps/614 Kbps</td>
</tr>
<tr>
<td>Management</td>
<td></td>
</tr>
</tbody>
</table>

**OPTIONAL EMBEDDED GPS**

Contact Intuicom for configurations and specifications

*Measured assuming 75% frequency availability. Note: Specifications subject to change without notice."