**Messenger Series**  
*Rugged industrial communications devices for SCADA systems*

---

**Industrial Wi-Fi Ethernet Radio/Access Point**

*Very high speed wireless communications + easy access to controllers & RTUs for tablets, laptop computers and smart phones.*

- Very high speed wireless Ethernet – up to 54Mbps
- Configurable as Access Point or Client
- Up to 100mW (20dBm) transmit power – user configurable
- 2.4GHz (5GHz optional)
- Includes internal 8dBi antenna
- Supports DHCP (can serve addresses to wireless devices)
- Power Over Ethernet (12Vdc), passive POE injector included
- Indoor/Outdoor use – easy pole or panel mount
- Compact design with internal antenna saves panel space and cost
- Wide operating Temperature Range: -20°C to +70°C
- Web page configuration by wired (LAN) connection or "over-the-air" (WAN)
- 3-year factory warranty on parts and labor

---

**High-speed Wireless Ethernet Connectivity**
- Interconnect Ethernet devices up to 54 Mbps, up to 5Km

**Supports standard Wi-Fi devices**
- Works with tablet computers, laptop computers and smart phones

**Easy Installation**
- Custom configuration is easy through built-in web pages (no software to install). Access by Ethernet cable or over-the-air!

**Low-cost twisted pair wiring**
- Power and data over the same Ethernet cable simplifies installation.

**DC Powered**
- Use the same 12V DC power supply that powers your other controllers and sensors. Supports battery-backed applications also.

**Compact**
- Very small footprint with 8dBi antenna built-in.

**Rugged Reliability**
- Operates over an extended temperature range of -20°C to 70°C, and backed by an industry leading 3-year factory parts and labor warranty.

---

Typical SCADA applications

---

Copyright 2010 Industrial Control Links, Inc. All Rights Reserved Specifications subject to change.
Specifications

Radio

Standards
IEEE 802.11/b/g

Transmit/Receive – 802.11b

<table>
<thead>
<tr>
<th>Data Rate</th>
<th>TX Power [+/- 1dB]</th>
<th>Sensitivity [+/- 1dB]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1Mbps</td>
<td>20dBm</td>
<td>-95dBm</td>
</tr>
<tr>
<td>2Mbps</td>
<td>20dBm</td>
<td>-94dBm</td>
</tr>
<tr>
<td>5.5Mbps</td>
<td>20dBm</td>
<td>-93dBm</td>
</tr>
<tr>
<td>11Mbps</td>
<td>20dBm</td>
<td>-90dBm</td>
</tr>
</tbody>
</table>

Transmit/Receive – 802.11g OFDM

<table>
<thead>
<tr>
<th>Data Rate</th>
<th>TX Power [+/- 1dB]</th>
<th>Sensitivity [+/- 1dB]</th>
</tr>
</thead>
<tbody>
<tr>
<td>6Mbps</td>
<td>20dBm</td>
<td>-92dBm</td>
</tr>
<tr>
<td>9Mbps</td>
<td>20dBm</td>
<td>-91dBm</td>
</tr>
<tr>
<td>12Mbps</td>
<td>20dBm</td>
<td>-89dBm</td>
</tr>
<tr>
<td>18Mbps</td>
<td>20dBm</td>
<td>-88dBm</td>
</tr>
<tr>
<td>24Mbps</td>
<td>20dBm</td>
<td>-84dBm</td>
</tr>
<tr>
<td>36Mbps</td>
<td>18dBm</td>
<td>-81dBm</td>
</tr>
<tr>
<td>48Mbps</td>
<td>16dBm</td>
<td>-75dBm</td>
</tr>
<tr>
<td>54Mbps</td>
<td>15dBm</td>
<td>-72dBm</td>
</tr>
</tbody>
</table>

Internal Antenna

<table>
<thead>
<tr>
<th>Gain</th>
<th>8dB</th>
<th>[2400-2500MHz]</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Survive Wind</th>
<th>216 km/hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>3dB Beamwidth Elevation</td>
<td>60 degrees</td>
</tr>
<tr>
<td>3dB Beamwidth Azimuth</td>
<td>60 degrees</td>
</tr>
</tbody>
</table>

Dimensions
10.4" x 3.1" x 1.2" (26.4 cm x 8 cm x 3cm)

Weight
0.4 lb (0.18kg)

Power
10 to 15Vdc [4 Watts max]. Supply and injector included

POE Power Connector
2-position removable terminal block, 5.08mm, 12 to 22AWG

Enclosure
Outdoor UV Stabilized Plastic

Mounting

Radio
Panel or Pole - Mounting Kit included

POE injector
DIN rail mount

Environment
Temperature: -20C to +70C, Humidity: 5 to 95% Condensing

Shock and Vibration
ETS300-019-1.4

Mating Cables
Part# 99-10xx RJ-45 to RJ-45 Ethernet Cable, Cat 5e [xx is length in ft. – available lengths: 01, 03, 06, 10, 15]

Represented by:

Industrial Control Links, Inc.
www.iclinks.com
Tel: 530-888-1800

Copyright © 2010 Industrial Control Links, Inc. All Rights Reserved Specifications subject to change.