M-System IT40SW, IT50SW and IT60SW Series are preassembled tower lights of 40-mm, 50-mm and 60-mm diameter LED modules with wireless LAN connectivity. The WLAN access point built in the IP 65 protected tower light is a simple and practical solution for status remote monitoring, data logging and supervisory control of manufacturing equipment and process in harsh industrial environment.

The WLAN capability complying with IEEE 802.11b/g/n allows a wide compatibility with M-System’s and other manufacturers’ remote I/O modules and web-enabled data loggers, thus realizing versatile applications such as data acquisition and control of multiple machines by single master PLC located in one without needing hardwiring between each of them, or event notification to tablet devices with texts and images from manufacturing equipment.

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**SELECTION GUIDE**

**FUNCTION** | **MODEL NO.** | **DIAMETER**
--- | --- | ---
WLAN Access Point | IT60SW2 | φ60 mm (2.36")
 | IT50SW2 | φ50 mm (1.97")
 | IT40SW2 | φ40 mm (1.57")
WLAN Client | IT60SW1 | φ60 mm (2.36")
 | IT50SW1 | φ50 mm (1.97")
 | IT40SW1 | φ40 mm (1.57")

**GENERAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Degree of protection</th>
<th>IP 65, vertical mounting only (except the bottom connectors)</th>
</tr>
</thead>
</table>
| Connection | UL 1007 AWG 20
UL 1007 AWG 22 |
| Power input | RJ-45 connector |
| Contact input Ethernet | |
| Housing material | Flame-resistant resin (white) |
| Tower | Flame-resistant resin (transparent) |
| Lens | |
| DIP SW | Light’s blinking frequency, buzzing ON/OFF frequency and volume level, output at communication failure, IP address resetting (approx. 2 Hz or 10 Hz) |
| LEDs | Max. 5 layers; free choice of colors among Red, Amber, Green, Blue, White LED, continuous or intermittent (approx. 2 Hz or 10 Hz) |
| Status indicators | Power, Run, Link, Link100, COL, WLAN |
| Buzzing | Approx. 3.3 kHz, continuous or intermittent (approx. 2 Hz or 10 Hz) |

**WIRELESS LAN**

<table>
<thead>
<tr>
<th>Standard</th>
<th>IEEE 802.11b/g/n</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency band</td>
<td>2400 - 2483.5 MHz (ch. 1 - ch. 13)</td>
</tr>
<tr>
<td>Max. transmission distance (optical)</td>
<td>Approx. 50 meters (depends on setting)</td>
</tr>
<tr>
<td>Access mode</td>
<td>Infrastructure</td>
</tr>
<tr>
<td>Security</td>
<td>WEP 64 bit/128 bit, WPA-TKIP, AES, WPA2-TKIP, AES</td>
</tr>
<tr>
<td>Number of clients</td>
<td>5</td>
</tr>
</tbody>
</table>

**Modbus/TCP**

- Standard: IEEE 802.3u
- Transmission: 10BASE-T, 100BASE-TX
- Baud rate: 10/100 Mbps (auto negotiation)
- Data: RTU (binary)
- IP address: 192.168.0.1 (default), Selectable with PC Configurator

**INSTALLATION**

- Power input: 24 Vdc ±10% (ripple 10%p-p max.)
- Operating temp: -10 to +55°C (14 to 131°F)
- Operating humidity: 30 to 85% RH (non-condensing)
- Atmosphere: No corrosive gas
- Mounting: Surface (vertical direction only)
- Mounting pole: Pole with L-shape bracket or with mounting base (model: ITPL)

**PERFORMANCE**

- Insulation resistance: 100 MΩ or more with 500 Vdc
- Dielectric strength: 1500 Vac @ 1 minute (discrete input or power to network)