The NetWave® NW10[E] Industrial Grade high performance wireless radio is ideal for high capacity and scalable deployments where channel overlapping and interference typically cause our discounted competitors radios to become unstable. The wide range of channel spectrum widths available on the NW10[E] series of radios gives you the option of narrowing channel bandwidths as your network grows which will increase the number of non-overlapping channels and improve stability.

The NW10[E] comes standard with an integrated antenna and an IP67 rated impact resistant ABS enclosure that is designed to survive the most extreme conditions. The NW10 is FCC certified for use in North America and the NW10E is ETSI, DFS and TPC certified for use in the European Union.
### SPECIFICATIONS

#### Software Features
- **Addressing**: Static IP / DHCP Client / DHCP Server
- **SNMP**: v3
- **Telnet Server**: Syslog
- **Dynamic DNS**: 802.1q VLAN support
- **Embedded Firewall**: QoS support
- **Ability to Assign Static Routes**: NTP Client
- **Spanning Tree Protocol support**: 802.1x Port-Based Network Access Control
- **User-Configurable Watchdog and Auto- Reboot Mechanism**
- **Multi-Level Configuration and Monitoring Login Accounts**
- **User Configurable Long Range Parameters**

#### Wireless Radio
- **EIRP**
  - NW10 (FCC): Up to +36 dBm for point to multipoint deployments, +49 dBm for point to point deployments with MAC-lock feature enabled
  - NW10E (ETSI): +30 dBm
- **RF Output**: +30 dBm
- **Operational Frequency**: 5180 MHz – 5825 MHz, Region-dependent.
  - Not all frequencies are supported in all regions. Contact ComNet for frequencies supported in your region.
- **Bandwidths**: 5, 10, 20 and 40 MHz

#### Standard Internal Antenna
- **Antenna**: Internal 19 dBi Dual Polarized Directional
- **Gain**: 19 dBi
- **Azimuth**: 17º Horizontal/Vertical
- **Elevation**: 17º Horizontal/Vertical

### Connectors
- **Gigabit Ethernet**: Port 1 RJ-45, Sealed Cable Gland
- **10/100 Ethernet**: Port 2 RJ-45, Sealed Cable Gland

### Power
- **Operating Voltage**: 42 to 57 VDC
- **Power Consumption**: 5 W Max
- **PD Power**: IEEE802.3af/at pass-through PD compliant
- **PSE Power**: IEEE802.3af PSE compliant uplink

### Mechanical
- **Indicating LEDs**: Power On, Ethernet Link, Signal Strength
- **Size (L × W × H)**: 10.6 × 10.6 × 2.9 in (27 × 27 × 7.5 cm)
- **Shipping Weight**: < 4.4 lb / 2 kg

### Environmental
- **MTBF**: > 100,000 hours
- **Operating Temp**: -40° C to +75° C
- **Storage Temp**: -40° C to +85° C
- **Relative Humidity**: 5% to 95%, non-condensing¹

### Warranty
- **Internal Components**: Lifetime
- **Enclosure**: 3 Year

### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NW10</td>
<td>Industrially Hardened Narrow Bandwidth Wireless Radio, Supports distances up to 2 mi/3.2 km, FCC certified for North America</td>
</tr>
<tr>
<td>NW10E</td>
<td>Industrially Hardened Narrow Bandwidth Wireless Radio, Supports distances up to 2 km/1.25 mi, ETSI certified for European Union</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Included Accessories</th>
<th>Pole Mounting Hardware Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Options</td>
<td>NWBK1 - Articulating Wall or Pole Mounting Kit. Supports up to 3in/76mm diameter poles. (Sold Separately)</td>
</tr>
<tr>
<td></td>
<td>PIM1 - Hardened Power Injection Module supporting 24-48V DC and 24VAC Input, Includes 24V 12W power supply</td>
</tr>
<tr>
<td></td>
<td>CNGE1IPS - Hardened 35W Midspan Power Injection Module for Passthrough PoE Applications supporting 90-264V AC and 56V DC Input</td>
</tr>
<tr>
<td></td>
<td>Add suffix /BB for Internal Battery Backup supporting up to 15 minutes of operation depending unit configuration</td>
</tr>
<tr>
<td></td>
<td>[1] Add suffix ‘/C’ for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory)</td>
</tr>
</tbody>
</table>

**NOTE:** In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

### TYPICAL APPLICATION

![TYPICAL APPLICATION Diagram](image-url)

**Legend**
- **Wireless**
- **Cat5**
- **Power**
- **Ethernet**

**Port 1: 10/100/1000TX RJ-45**
- IEEE802.3af/at PD compliant

**Port 2: 10/100TX RJ-45**
- IEEE802.3af PSE compliant

---