

# Product Information

## HWRD600 Series

### MU-MIMO 802.11n Industrial Access Point



## Features

- ❖ IEEE 802.11b/g/n compliant
- ❖ 2.4GHz 28dBm aggregate power
- ❖ Distance Adjustment for long range transmission
- ❖ IP30 Metal Enclosure
- ❖ Push-Button Reset
- ❖ Dynamic DNS
- ❖ Ping Watchdog
- ❖ Auto Reboot Service
- ❖ Support AP Mass Management Software via SNMP Protocol

## Applications

- 802.11g/n + 802.11a/n/ac AP
- Point to Point / Point to Multi-Point/ Coverage/ CPE
- Design for Hard-to-Wire Industrial Application

## Specifications

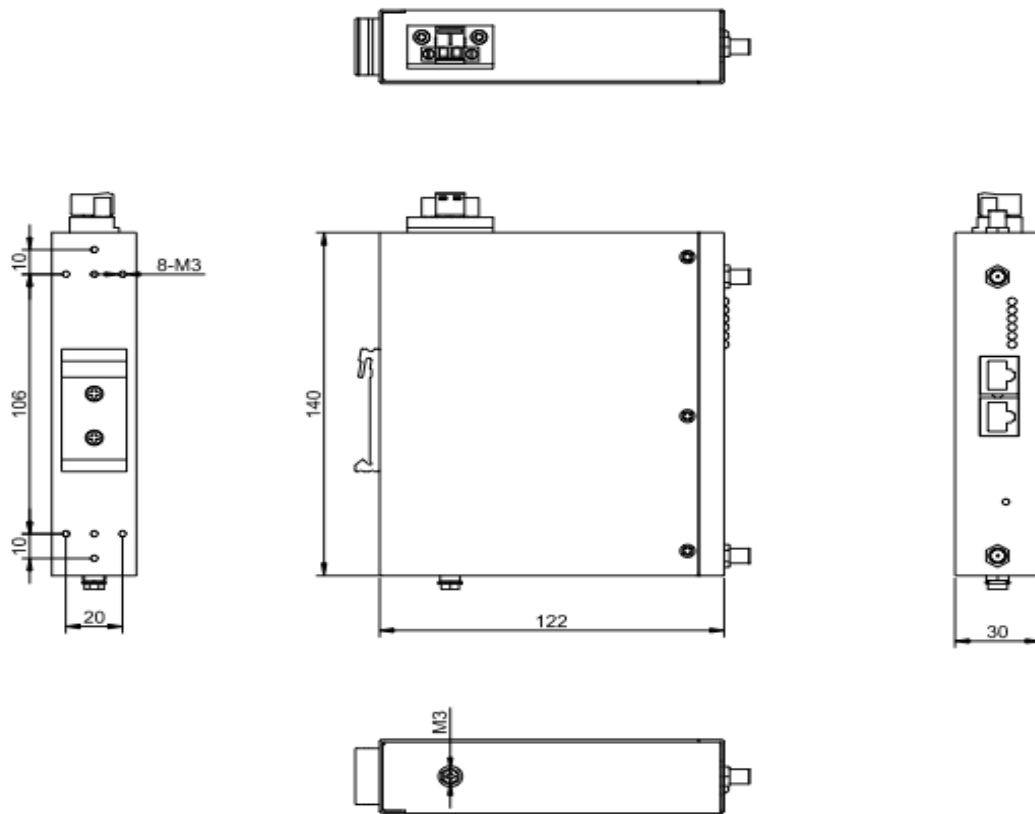
|                     |  |
|---------------------|--|
| System Memory       | 128MB DDR2   |
| NOR Flash           | 16MB   |
| Antenna             | Based on Applications  |
| Interface           | 2x Gigabit Port (Auto MDI-X)   |
| LED                 | 7 LEDs total, Power, LAN1, LAN2, Signal LED 1,2,3,4  |
| Power over Ethernet | Passive PoE 24-56V or IEEE 802.3af/at PoE on LAN0  |
| DC Power            | 1x DC Jack Connector   |
| Power Consumption   | 8.6W(Max)  |
| Certification       | RoHS Compliance  |
| Environmental       | Temperature: Operating: Operating: -20~70°C, Storage: -40~90°C, Humidity (non-condensing): Operating: 5% to 95%, Storage: Max. 90% |
| Enclosure Type      | IP30   |
| Dimensions          | 30X140X122mm   |
| Other Features      | Surge Suppressor, Watchdog Timer   |

## RF Performance Table

|                           | Data Rate | TX Power (per chain) | TX Power (2 chains) | Tolerance |
|---------------------------|-----------|----------------------|---------------------|-----------|
| 2.4GHz<br>802.11b         | 1Mbps     | 28dBm                | 33dBm               | ±2dB      |
|                           | 5.5Mbps   | 28dBm                | 33dBm               | ±2dB      |
|                           | 11Mbps    | 28dBm                | 33dBm               | ±2dB      |
|                           | 6Mbps     | 30dBm                | 35dBm               | ±2dB      |
|                           | 9Mbps     | 30dBm                | 35dBm               | ±2dB      |
| 2.4GHz<br>802.11g         | 12Mbps    | 30dBm                | 35dBm               | ±2dB      |
|                           | 18Mbps    | 30dBm                | 35dBm               | ±2dB      |
|                           | 24Mbps    | 30dBm                | 35dBm               | ±2dB      |
|                           | 36Mbps    | 28dBm                | 33dBm               | ±2dB      |
|                           | 48Mbps    | 27dBm                | 32dBm               | ±2dB      |
| 2.4GHz<br>802.11n<br>HT20 | 54Mbps    | 26dBm                | 31dBm               | ±2dB      |
|                           | MCS 0     | 30dBm                | 35dBm               | ±2dB      |
|                           | MCS 1     | 28dBm                | 33dBm               | ±2dB      |
|                           | MCS 2     | 28dBm                | 33dBm               | ±2dB      |
|                           | MCS 3     | 28dBm                | 33dBm               | ±2dB      |
|                           | MCS 4     | 27dBm                | 32dBm               | ±2dB      |
|                           | MCS 5     | 26dBm                | 31dBm               | ±2dB      |
| 2.4GHz<br>802.11n<br>HT40 | MCS 6     | 25dBm                | 30dBm               | ±2dB      |
|                           | MCS 7     | 24dBm                | 29dBm               | ±2dB      |
|                           | MCS 0     | 29dBm                | 34dBm               | ±2dB      |
|                           | MCS 1     | 27dBm                | 32dBm               | ±2dB      |
|                           | MCS 2     | 27dBm                | 32dBm               | ±2dB      |
|                           | MCS 3     | 27dBm                | 32dBm               | ±2dB      |
|                           | MCS 4     | 26dBm                | 31dBm               | ±2dB      |
|                           | MCS 5     | 25dBm                | 30dBm               | ±2dB      |
|                           | MCS 6     | 24dBm                | 29dBm               | ±2dB      |
|                           | MCS 7     | 23dBm                | 28dBm               | ±2dB      |

|                           | Data Rate | RX Sensitivity | Tolerance |
|---------------------------|-----------|----------------|-----------|
| 2.4GHz<br>802.11b         | 1Mbps     |                | ±2dB      |
|                           | 5.5Mbps   |                | ±2dB      |
|                           | 11Mbps    |                | ±2dB      |
|                           | 6Mbps     |                | ±2dB      |
|                           | 9Mbps     |                | ±2dB      |
| 2.4GHz<br>802.11g         | 12Mbps    |                | ±2dB      |
|                           | 18Mbps    |                | ±2dB      |
|                           | 24Mbps    |                | ±2dB      |
|                           | 36Mbps    |                | ±2dB      |
|                           | 48Mbps    |                | ±2dB      |
| 2.4GHz<br>802.11n<br>HT20 | 54Mbps    |                | ±2dB      |
|                           | MCS 0     |                | ±2dB      |
|                           | MCS 1     |                | ±2dB      |
|                           | MCS 2     |                | ±2dB      |
|                           | MCS 3     |                | ±2dB      |
|                           | MCS 4     |                | ±2dB      |
|                           | MCS 5     |                | ±2dB      |
| 2.4GHz<br>802.11n<br>HT40 | MCS 6     |                | ±2dB      |
|                           | MCS 7     |                | ±2dB      |
|                           | MCS 0     |                | ±2dB      |
|                           | MCS 1     |                | ±2dB      |
|                           | MCS 2     |                | ±2dB      |
|                           | MCS 3     |                | ±2dB      |
|                           | MCS 4     |                | ±2dB      |
|                           | MCS 5     |                | ±2dB      |
|                           | MCS 6     |                | ±2dB      |
|                           | MCS 7     |                | ±2dB      |

## Dimension Drawings



Units:mm

## Ordering Information

|         |  |
|---------|--|
| HWRD600 | 2.4G Single Channel 23dBm, up to 28dBm (11ac wave 1); -20~70°C operating temperature |
|---------|--|