

HWRD300 Series

802.11b/g/n Long Range Industrial Access Point

Features

- 128MB System Memory
- 16MB NOR Flash
- On-board 2.4GHz max 23dBm output power (per chain)
- IEEE 802.11n compliant & backward compatible with 802.11b/g
- 2 x 2 On-board radio up to 300Mbps physical data rate
- 2 x FE LAN RJ45 with Auto MDI/X
- Passive 24V Power Over Ethernet
- Integrated 48V IEEE 802.3af available as Option



Applications

Dual Band, Dual Concurrent AP	802.11b/g/n+802.11a/n/ac AP
Point to Point and Point to Multi-Point Wireless Bridge	Wireless Base Station
Wireless Customer-Premises Equipment (CPE)	Support for Third Party 3G/LTE Radio Module

Specifications

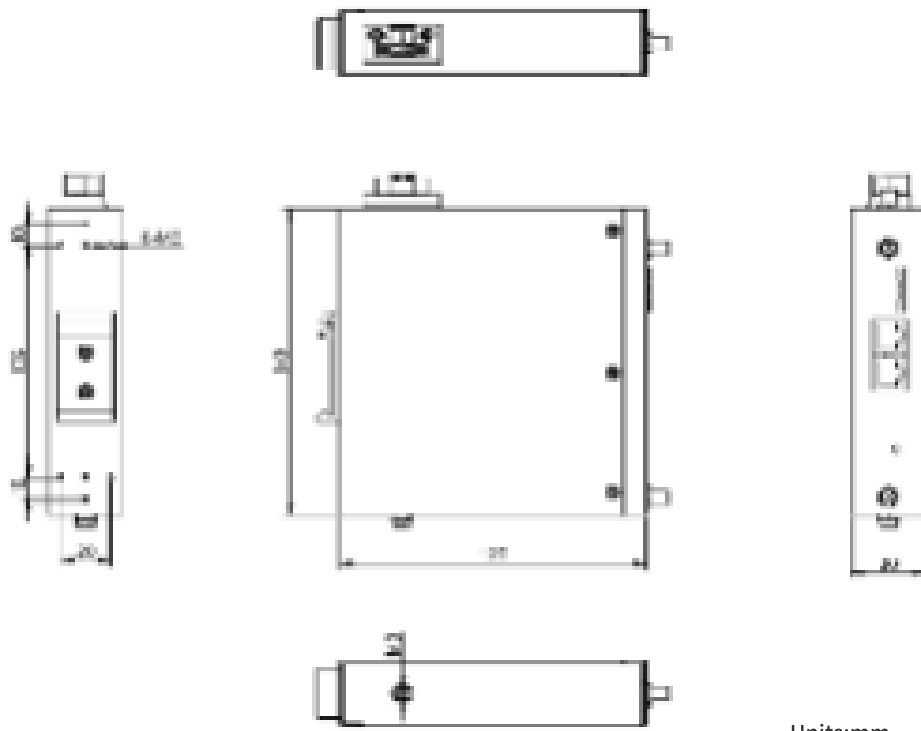
System Memory	128MB DDR2
NOR Flash	16MB
Wireless	Built in 2.4GHz 802.11b/g/n at 26dBm (aggregate) 2x U.FL connectors
Interface	2x Fast Ethernet Port (Auto MDI-X) 1x JTAG 14 Pin Connector1 1x Serial Port 4 Pin Connector2
Reset Button	Yes
LED	6x LED Indicators
Power over Ethernet	Passive PoE 24V (LV version), IEEE 802.3af/at or Passive PoE 36-56V (HV version)
DC Power	1x DC Jack Connector: 12-24V (LV version), 24-56V (HV version)
Power Consumption	6.9 Watt (Max)
Certification	FCC & CE Certification, RoHS Compliance
Environmental	Temperature: Operating: Operating: -20~70°C, Storage: -40~90°C, Humidity (non-condensing) Operating: 5% to 95%, Storage: Max. 90%
Other Features	Surge Suppressor, Watchdog Timer

RF Performance Table

	Data Rate	TX Power(per chain)	TX Power(2 chains)	Tolerance
2.4GHz 802.11b	1Mbps	23dBm	26dBm	±2dB
	2Mbps	23dBm	26dBm	±2dB
	5.5Mbps	23dBm	26dBm	±2dB
	11Mbps	23dBm	26dBm	±2dB
2.4GHz 802.11g	6Mbps	23dBm	26dBm	±2dB
	9Mbps	23dBm	26dBm	±2dB
	12Mbps	23dBm	26dBm	±2dB
	18Mbps	23dBm	26dBm	±2dB
	24Mbps	23dBm	26dBm	±2dB
	36Mbps	21dBm	24dBm	±2dB
	48Mbps	20dBm	23dBm	±2dB
	54Mbps	19dBm	22dBm	±2dB
2.4GHz 802.11n HT20	MCS 0	22dBm	25dBm	±2dB
	MCS 1	21dBm	24dBm	±2dB
	MCS 2	21dBm	24dBm	±2dB
	MCS 3	21dBm	24dBm	±2dB
	MCS 4	20dBm	23dBm	±2dB
	MCS 5	19dBm	22dBm	±2dB
	MCS 6	18dBm	21dBm	±2dB
	MCS 7	17dBm	20dBm	±2dB
2.4GHz 802.11n HT40	MCS 0	22dBm	25dBm	±2dB
	MCS 1	21dBm	24dBm	±2dB
	MCS 2	21dBm	24dBm	±2dB
	MCS 3	21dBm	24dBm	±2dB
	MCS 4	20dBm	23dBm	±2dB
	MCS 5	19dBm	22dBm	±2dB
	MCS 6	18dBm	21dBm	±2dB
	MCS 7	17dBm	20dBm	±2dB
	Data Rate	RX Sensitivity		Tolerance
2.4GHz 802.11b	1Mbps	-94dBm		±2dB
	2Mbps	-92dBm		±2dB
	5.5Mbps	-90dBm		±2dB
	11Mbps	-89dBm		±2dB

2.4GHz 802.11g	6Mbps	-95dBm	±2dB
	9Mbps	-94dBm	±2dB
	12Mbps	-94dBm	±2dB
	18Mbps	-93dBm	±2dB
	24Mbps	-90dBm	±2dB
	36Mbps	-85dBm	±2dB
	48Mbps	-79dBm	±2dB
	54Mbps	-75dBm	±2dB
2.4GHz 802.11n HT20	MCS 0	-94dBm	±2dB
	MCS 1	-93dBm	±2dB
	MCS 2	-90dBm	±2dB
	MCS 3	-87dBm	±2dB
	MCS 4	-84dBm	±2dB
	MCS 5	-79dBm	±2dB
	MCS 6	-79dBm	±2dB
	MCS 7	-75dBm	±2dB
2.4GHz 802.11n HT40	MCS 0	-88dBm	±2dB
	MCS 1	-87dBm	±2dB
	MCS 2	-85dBm	±2dB
	MCS 3	-83dBm	±2dB
	MCS 4	-80dBm	±2dB
	MCS 5	-76dBm	±2dB
	MCS 6	-73dBm	±2dB
	MCS 7	-70dBm	±2dB

Dimension Drawings



Ordering Information

HWRD300

2.4G Single Channel 23dBm (11b/g/n), -20~70°C operating temperature