



Wireless Carrier Class Solutions

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Outdoor Giga Ethernet Bridge Power link Platinum Series PL-PS PLX-PS



**300Mbps
GIGA ETHERNET
HIGH POWER BRIDGE**

PLATINUM-SERIES is the flagship product line from WI-CORP. PL-PS is the ideal outdoor wireless Giga Ethernet Bridge for Telco Carriers, and large deployments demanding great processing capacity. Designed from the beginning to give carrier class type services, PLATINUM-SERIES can do long distance links in the toughest environments with outstanding stability.

Equipped with POE port, PL-PS can connect to a hub or to a switch or an access Point without the need to install a router. This represents significant savings on hardware costs.

PLATINUM-SERIES uses OFDM/ MIMO/ TDMA technology operating in the 4.9 / 5.1, 5.3/ 5.8/ 6 GHz license bands. Because OFDM/ MIMO can take advantage of reflected RF signals, it is now possible to connect locations you may have thought were inaccessible due to line of sight barriers.

PLATINUM Series come with Router OS L5 power full Point to Multi Point System capable to work at OSI layer7.

Hardware Highlights

- 1.1 GHz/512MRAM
- Engineered for reliability even in the hottest regions of the world
- 300 Mbps RF Mini PCIs
- Die Cast ruggedized

Nv2 Wireless protocol based on TDMA

TDMA(Time Division Multiple Access) is a channel access method for shared medium networks. It allows several users to share the same frequency channel by dividing the signal into different time slots. The users transmit in rapid succession, one after the other, each using his own time slot. This allows multiple stations to share the same transmission medium (e.g. radio frequency channel) while using only a part of its channel capacity.

The most important benefits of Nv2 are:
Increased speed, More client connections in PTM environments, Lower latency, No distance limitations, Possibility to set CPE association priorities, so when AP switches to Nv2, all CPEs switch too, allowing easy migration and upgrade

Nv2 enables a special QoS mechanism to give priority to small packets, and improves link latency

Main Radio Features

- **Wide Band 4.9-5.1-5.3-5.8-6 GHz: PL-PS**
- **Wide Band 5.3-5.8 GHz: PLX-PS**
- Radio link and antenna alignment diagnostics
- AES encryption standard
- Operating range up to 40 miles.
- High Power: 25 dBm PL-PS
27 dBm PLX-PS
- Dual Antenna links
- 300 Mbps real throughput
- **Vn2 Proprietary TDMA Protocol**

Main Ethernet Features:

- Gigabit Ethernet
- Power over Ethernet

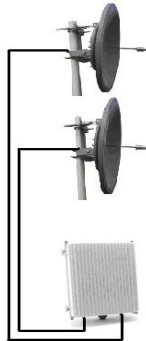
Platinum Series



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POWERLINK-PS Series Specification

Software Features

- ▣ Routing RIP 1 / 2, OSPF v2, BGP v4 (equal cost multi-path routing, policy based routing, firewall marked packet routing)
- ▣ PPP (ISDN, PPPoE, modem pool)
- ▣ RADIUS authorization and accounting
- ▣ IP telephony
- ▣ Bridging- WDS- MESH Topologies
- ▣ Stateful Firewall and NAT
- ▣ VLAN
- ▣ DHCP
- ▣ Tunnels (PPTP (VPN), IPsec, EoIP, IPsec)
- ▣ IP traffic accounting, firewall actions logging
- ▣ Bandwidth Management (per IP / protocol / subnet / port, CBQ, RED, SFQ, byte FIFO, packet FIFO)
- ▣ Tools (ping, traceroute, bandwidth test, ping flood, telnet)
- ▣ DNS cache
- ▣ Web cache
- ▣ SNMP
- ▣ NTP (Network Time Protocol)
- ▣ Remote administration and upgrading
- ▣ **PROPRIETARY VN2-TDMA PROTOCOL FEATURES: Polling, Long distance Throughput**

Radio Features

- Wireless Chipset Atheros AR9220 with FDS SUPPORT
- Radio Operation IEEE 802.11 a/g/n
- OFDM/ MIMO Technology
- Data Rates: Legacy 802.11a/b/g (1-54 Mbps), 802.11n (up to 200 Mbps)
- RoHS Compliance: YES

Power and Sensitivity Chart:

11a					
TX POWER SPECIFICATIONS (combined)			RX SPECIFICATION		
Data Rate	Tx Power	Tolerance	Data Rate	Sensitivity	Tolerance
1-24Mbps	25/ 27 dBm	+/-2dB	1-24Mbps	-97 dBm	+/-3dB
36Mbps	23/ 24 dBm	+/-2dB	36Mbps	-90 dBm	+/-3dB
48Mbps	21/ 22 dBm	+/-2dB	48Mbps	-86 dBm	+/-3dB
54Mbps	21 dBm	+/-2dB	54Mbps	-84 dBm	+/-3dB

5GHz 11n HT20

Platinum Series



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TX POWER SPECIFICATIONS (combined)			RX SPECIFICATION		
Data Rate	Tx Power	Tolerance	Data Rate	Sensitivity	Tolerance
MCS0	24/ 27dBm	+/-2dB	MCS0	-97 dBm	+/-3dB
MCS1	23/ 27 dBm	+/-2dB	MCS1	-96 dBm	+/-3dB
MCS3	23/ 27 dBm	+/-2dB	MCS3	-91 dBm	+/-3dB
MCS4	22/ 25 dBm	+/-2dB	MCS4	-87 dBm	+/-3dB
MCS8	22/ 25 dBm	+/-2dB	MCS8	-98 dBm	+/-3dB
MCS9	22/ 25 dBm	+/-2dB	MCS9	-97 dBm	+/-3dB
MCS12	22/ 23 dBm	+/-2dB	MCS12	-88 dBm	+/-3dB
MCS13	21/ 22 dBm	+/-2dB	MCS13	-85 dBm	+/-3dB
MCS14	21 dBm	+/-2dB	MCS14	-79 dBm	+/-3dB
MCS15	19 dBm/21 dBm	+/-2dB	MCS15	-76 dBm/-79dBm	+/-3dB

Hardware Features

- PoE 24 Volts Systems
- 2* Gigabit Ethernet Port
- 1.1 GHz-512MB RAM
- USB 2.0
- Rugged Die Cast Enclosure
- Operation Temperature Range: -40C to +75C
- Robust ESD/Surge Protection for Industrial Applications
- Dimensions (RF unit) 9" x 7" x 3.5" (25.9 cm x 25.9 cm x 7.9 cm)
- Weight (per RF unit) 3.5 lbs.
- Shipping weight (complete package) Approx. 26 lbs. (standard package)
- Humidity 0% to 100% (Non-immersion rain)
- Wall wart power supply included Yes, 110/240 VAC
 - Power design : 24 V Carrier Class Power over Ethernet- Power required (at radio) +15VDC (from included power supply)
 - Wired Network Interfac e (at PoE injector) RJ-45 107100/1000Base-TX
 - Certification: Part 15 FCC
 - Warranty 1 year depot

More Information: info@wi-corp.com www.wi-corp.com

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