PremierWave® XN

HIGH PERFORMANCE, DUAL BAND (2.4/5GHZ) DEVICE FOR WI-FI® CONNECTIVITY

PremierWave® XN is a multi-port device server that offers high performance Ethernet or wireless connectivity for remote access and easy management of machines or equipment over the network and across the Internet.

PremierWave XN provides bullet-proof security by offering robust data encryption and authentication options including AES, SSH and SSL. Remote configuration over a network is possible using Telnet, SSH, or web browser (HTTP and HTTPS).

Equipped with the market leading "Lantronix device server application suite," the PremierWave XN provides control of serial communication on connected devices and the flexibility to have data globally available. Advanced Applications Suite includes: basic & secure tunneling application, web-based configuration manager and robust system level and diagnostic utilities.

Additionally, Lantronix's proprietary Secure ComPort Redirector™ software allows existing serial port applications to work without code modifications.

Designed with 802.11n technology, the PremierWave XN employs antenna diversity for optimal wireless performance, signal reliability, and extended range of wireless transmissions.

With the exclusive SmartRoam™ technology from Lantronix, the PremierWave XN provides seamless mobile connectivity. By tracking the signal strength of Access Points (AP) within range along with preauthentication and caching, smooth and automatic transition to an access point occurs without delay.

Configuration of PremierWave XN is simple with the included Windows-based DeviceInstaller™. With the Lantronix QuickConnect Manager, PremierWave XN provides an easy connection to the wireless network through a Web-based interface.

PremierWave XN Highlights

- Increased wireless speed, improved reliability and extended transmission range with dualband 802.11n

- Lantronix SmartRoam™ technology provides seamless mobile connectivity and improved reliability

- Enterprise-level security options including AES, SSL, SSH and EAP for data encryption and authentication

- Simple device set-up, configuration and monitoring with powerful, industry-standard management tools (Web, CLI, XML), Lantronix DeviceInstaller™, QuickConnect, and WPS support

LANTRONIX

Features

Standards
- IEEE 802.11 a/b/g/n
- IEEE 802.11i
- IEEE 802.3
- IEEE 802.3u
- USB 2.0

Hardware
- 400MHz ARM 9 processor
- 64MB SDRAM
- 64MB Standard NAND Flash

Wireless
- Frequency Range – 2.412 - 2.484, 4.900 - 5.925 GHz
- Typical Receive Sensitivity
  - 802.11 b/g/n (2.4GHZ)
    - -71.0 dBm (<10% PER) @65Mbps
    - -74.0 dBm (<10% PER) @54Mbps
    - -94.0 dBm (<8% PER) @1Mbps
  - 802.11 a/n (5GHZ)
    - -69.0 dBm (<10% PER) @65Mbps
    - -72.0 dBm (<10% PER) @54Mbps
    - -88.0 dBm (<10% PER) @6Mbps
- Typical Transmit Power
  - 17 dBm for 802.11b DSSS
  - 17 dBm for 802.11b CCK
  - 15 dBm for 802.11g/n OFDM
  - 12 dBm for 802.11a/n

Physical Interface
- (2) DB9M (DTE) Serial Connectors
  - Software selectable RS-232/422/485
  - Data rates – up to 921 Kbps
  - 15 KV ESD Protection
- (2) USB ports – Type A Host Connectors
- (1) RJ-45 Ethernet port
  - 10/100Mbps
  - 1.5 KV Surge Isolation
- (1) Reset Button
- (1) WPS Button
- (1) 12VDC Plug-in Connector
- (1) Power Terminal Block
  - 9 to 30 VDC

LED Indicators
- Power
- Status
- Wi-Fi Wireless Signal Strength
- (2) USB
- (2) Serial
- RJ-45 Ethernet (Activity/Link)

Physical Dimensions
Size: L x W x H
11cm (4.3 in) X 8.9cm (3.5 in) x 2.6cm (1.0 in)
Weight: 0.35 kg (0.77 lb)

Supported Software and Features
- DeviceInstaller™ supports:
  - Windows
  - XP/Vista
  - 7 (32/64-bit versions)
  - Server 2003/2008 (32/64-bit versions)
- Secure Com Port Redirector™
- Lantronix SmartRoam™
- QuickConnect
- Wireless Bridging

Security
- Ethernet
  - SSL v3 (2048-bit), SSH v2 (1024-bit) Client & Server
  - Encryption: AES-CCMP, 3DES, RC4
  - Authentication: SHA-1, MD5, Base-64
- Wireless
  - Encryption: TKIP, WEP (64/128-bit), WPA, WPA2 , AES-CCMP
  - Authentication: PSK, EAP (TLS, TTLS, PEAP)

Management
- Web Manager (SSL option for secure login)
- CLI (over Serial Ports, Telnet or SSH)
- XML Configuration Records via CLI or FTP
- Supports SNMP v2

Environmental
- Operating Temp: -40° to 70° C (-40° to 158° F)
- Storage Temp: -40° to 85° C (-40° to 185° F)
- Relative Humidity: 5 to 95%, Non-condensing
- IP Rating: 30
- ESD tolerance: Contact Discharge= 4Kv; Air Discharge=8Kv

Power
- Input: 2 x DC (barrel and terminal), 9-30 VDC
- Power Consumption: Without USB Load 9V= 1.76W, 30V= 2.25W; Full USB Load 9V= 7.2W, 30V= 8.1W
- Power Supply (100-240 VAC, 50-60 Hz, 12 VDC @ 1A) with regional adapters

Certifications
- Emissions – FCC, CE, IC, C-Tick
- Safety – UL
- Wi-Fi
- REACH
- RoHS

Warranty
- 5-Year Limited

Part Number	Description
PXN210002-01U	PremierWave XN 802.11a/b/g/n Device Server without I/O, 2 x Serial, 2 x USB, 10/100Mbps, Universal Power Supply 100-240 VAC, US
PXN210002-01E	PremierWave XN 802.11a/b/g/n Device Server without I/O, 2 x Serial, 2 x USB, 10/100Mbps, Universal Power Supply 100-240 VAC, EUROPE
PXN210002-01J	PremierWave XN 802.11a/b/g/n Device Server without I/O, 2 x Serial, 2 x USB, 10/100Mbps, Universal Power Supply 100-240 VAC, JAPAN

Accessories

930-033-R	External Antenna for PremierWave XN 2.15 dBi, Reverse Polarity, SMA Connector
520-090-R	External Power Supply with Regional Adapters, 100-240 VAC, 50-60Hz, 12 VDC @1A

Ordering Information

Americas
800.422.7055
sales@lantronix.com
http://www.lantronix.com
NASDAQ: LTRX

Europe
+31 (0) 76.52.3.6.74 4
EMEA@lantronix.com

Asia/Pacific/Japan
+852 3428.2338
asiapacific_sales@lantronix.com

China: +86.21.6237.8868
Shanghai@lantronix.com

India: +91 994-551-2488
Sales_India@lantronix.com

Japan: +81.3.3273.8850
Sales_Japan@lantronix.com

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