PremierWave® XC HSPA+ is an industrial-grade 3.5G wireless solution offering Penta-band HSPA+ performance, network redundancy, and enterprise-level security for mission critical applications, time sensitive event tracking, and M2M connectivity.

**Flexible & Robust**
PremierWave® XC HSPA+ is a flexible and robust intelligent gateway and application server in a compact industrial-grade IP30 rated housing. It is ideal for deployment in remote locations either as a primary wireless connectivity to host multiple devices or as a backup when Ethernet connectivity fails. As with any Lantronix product, PremierWave XC HSPA+ is designed with ease of use in mind without compromising security.

**Safe & Secure Remote Access**
PremierWave XC HSPA+ features the industry-proven Lantronix device server application suite and enterprise-level security (SSL, SSH, AES) allowing safe and secure remote access and management from practically anywhere.

**Customizable & Versatile M2M Solution**
With three primary connectivity modes (Ethernet-to-Cellular Routing, Serial-to-Cellular Tunneling, and Serial-to-Ethernet Tunneling), customizable event tracking/notification, and multiple configuration modes (Web browser, CLI, and XML), PremierWave XC HSPA+ is an extremely versatile, secure, and easy to manage M2M wireless solution.

**PremierWave XC HSPA+ Highlights:**
- Penta-band UMTS/HSPA+ (global coverage)
- Quad-band GSM/GPRS/EDGE
- Ethernet-to-Cellular Failover/Failback
- Ethernet-to-Cellular Routing
- Serial-to-Cellular Tunneling
- Serial-to-Ethernet Tunneling
- SMS - Shoulder Tap, Relay Control, Event Notification, SMS Tunneling*
- Lantronix Device Server Application Suite
- 1 10/100 Port, 2 Serial Ports, 2 Digital Inputs, 1 Relay Output, 1 USB Port
- Industrial Grade Design
- 5-Year Limited Warranty
Features and Specifications

> Network
  Cellular
  - UMTS/HSPA+ (850/800/900/1900/2100 MHz)
  - GSM/GPRS/EDGE (850/900/1800/1900 MHz)
  - Transfer Rates: up to 14.4 Mbps (downlink), up to 7.2Mbps (uplink)
  - 1 Secure SIM Slot
  - 2 x Omni-Directional Penta-band Antennas

Ethernet
  - 10BaseT and 100Base-TX Link (auto sensing – MDIX, full and half duplex support)
  - RJ-45 Connector with LEDs (operation and link)
  - 1.5 KV Isolation

> Serial Interface
  - Software selectable RS-232/422/485
  - Software selectable RS-485 termination
  - Serial data rates from 300 to 921 Kbps
  - Characters: 7 or 8 data bits
  - Parity: Odd, Even, None
  - Stop Bits: 1 or 2
  - Modem Control: DTR, DSR/DCD
  - Flow Control: XON/XOFF (SW), CTS/RTS (HW)

> Serial Connector
  - 2 x DB9M (DTE) with 15KV ESD protection per port

> USB Interface
  - USB Mass Storage Device Support

> USB Connector
  - 1 x USB Type A Host Connector (USB 2.0)

> I/O Interface
  - Input
    - Connection: Sensors/Events
    - Voltage acceptance: 0 to 30 VDC
    - Digital Input event: User configurable
    - Optical: 1.5 K
  - Output
    - Software: Turn Relay Output ON and OFF
    - Automatic Event Trigger: ON or OFF (possible events include loss of cellular link, loss of Ethernet link, digital input event)
    - Relay Output Response: User configurable
    - Support 1A @24V

> I/O Connectors
  - 2 x Digital Input, 1 x Relay Output (Terminal Block)

> LED Indicators
  - Cellular Mode, Signal Strength, Serial RX/TX, USB Connection, System Status, Power, Ethernet Speed, Ethernet Activity

> Routing/Gateway
  - NAT, Port Forwarding, SPI Firewall
  - WAN Failover/Failback
  - Multiple Ethernet LAN Hosts
  - Multithoming

> Protocol Support
  - Network Services: SMTP Client, RSS, Telnet Server/Client, SNTP, FTP Server/Client, SFTP Server/Client, TFTP Server, Syslog
  - Network Management: SNMP v1/v2c/v3
  - Network Security: HTTPS Server/Client, SSH Server/Client, SSL Server/Client, TLS, IPSec
  - Network Protocols: ARP, HTTP, UDP/IP, TCP/IP, ICMP, BOOTP, DHCP, Auto IP, DNS
  - Discovery Protocols: UDP
  - Industrial Protocols*: Modbus TCP, Modbus RTU, Modbus ASCII

> Event Triggers and Actions
  - Events: Cellular Link State Change, Ethernet Link State Change, Digital Input State Change
  - Actions: SMS, Email, HTTP Post, FTP Put, Relay Output, SNMP Trap

> Security
  - SSL v3, SSHv2, Client & Server, Supports up to 2048-bit certificates
  - Encryption: AES, 3DES, RC4
  - Authentication: SHA-1, MDS, Base-64 User Access Lists

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

> Software
  - Lantronix Device Server Application Suite
  - DeviceInstaller™

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>PXC2102H2-01-S</td>
<td>PremierWave XC HSPA+ Intelligent Gateway and Application Server, 2 Serial Ports, 2 Digital Inputs, Relay Output, USB, 10/100Base-T, 2 Antennas, Industrial Temperature, Universal Power Supply with Regional Adapters, RoHS</td>
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> Power
  - Input Voltage: 9-30 VDC
  - Power Consumption: 3.6 Watts (typical)
  - Power Supply (100 - 240 VAC, 50-60 Hz, 12 VDC @ 1.8A) with locking barrel connector and regional adapters, -40° to +75°C

> Environmental
  - Operating Temperature**: -40° to +70° C
  - Storage Temperature: -40° to +85° C
  - Relative Humidity: 5% to 95% non-condensing
  - IP Rating: 30

> Agency Approvals / Compliance
  - EMC - FCC Part 15 Class B, IC, CE, EN55022, EN55024 Class B
  - RF - FCC Part 22H, Part 24E, RSS 132,133, EN301-489-1, EN301 489-7, EN301 489-24, EN301 511, AS/ACIF 2042.1, 2042.3
  - Safety - UL 60950-1, cUL 60950-1, IEC 60950-1, CSA C22.2 No. 60950-1-07, AS/NZS 60950:2000
  - Network - PTCRB, R&TTE
  - Carrier Approval: AT&T
  - RoHS, REACH

> Dimensions
  - Size: (L x W x H): 109mm x 109mm x 30mm (4.3in x 4.3in x 1.2in)
  - Weight: 0.24 kg (0.55 lb)

> Warranty
  - 5-Year Limited

PremierWave XC HSPA+ Top View

*Available in future F/W release
**UL rated to 60° C