



1630 Diehl Road
Naperville, Illinois 60563 USA
+1 630 245-1445, +1 630 245-1717 FAX

PRODUCT DESCRIPTION and POSITIONING

Q: Why is the XPort Direct a “total module” solution or “turnkey module”?

A: The XPort Direct contains all the hardware and software necessary to connect the attached host device to a network. This includes:

- A dedicated Network Processor SoC (System on Chip)
- RJ45 Jack and Magnetics
- Program storage Flash (128KB) and Program Execution SRAM (256KB) memory
- Ethernet MAC and 10/100 PHY
- An operating system
- Networking protocol software
- Application software

Q: Why is it called an “embedded device gateway”?

A: The XPort Direct is an embedded module that provides a “gateway” between the attached device and an Ethernet network or the internet.

Q: Is the XPort Direct a Networking Coprocessor Module?

A: Yes, it can also be considered a co-processor Module. It offloads the task of networking from the device’s host processor, to its own networking optimized DSTni® processor.

Q: Is additional memory capacity available?

A: Additional memory capacity is not available

HARDWARE CAPABILITIES & INTERFACES

Q: Is the product pin-compatible with the XPort?

A: No, the product is not pin-compatible with the XPort.

Q: What is the maximum data rate for the XPort Direct?

A: The maximum data rate is 230Kbps.

Q: Does the product support RS232 and RS485 serial interfaces?

A: Yes, either RS232 or RS485 serial can be supported.

Q: How many serial ports are available on the WiPort NR?

A: One serial port is available.

Q: Is any additional interface, other than serial, such as I2C, supported?

A: No, the product does not currently support any other interface. Please contact your Lantronix sales representative if you have a high volume opportunity requiring an alternative interface.

SOFTWARE CAPABILITIES AND CONFIGURABILITY

Q: Does the XPort Direct support a device web server?

A: No, the XPort Direct does not support web services. The best selling XPort product is the right product for an OEM who needs an embedded web server module

Q: Can the XPort Direct be configured using a web browser?

A: No, the XPort Direct, unlike the XPort, cannot be configured using a web browser.

Q: What do you mean by the statement that the XPort Direct allows network parameters to be configured?

A: The XPort Direct supports the same degree of configuration of key network parameters as the XPort. This degree of configurability ensures that the networked device will interoperate, without difficulty, with virtually any Ethernet network or over the internet.

Q: What are some examples of configurable network parameters?

A: The complete list is available in the XPort Direct User Guide. A partial listing includes the following parameters:

- Multiple IP Addressing mechanisms such as DHCP, BootIP and AutoIP,
 - Baudrate
 - Flow Control
 - Port Number
 - Connect Mode
 - Data Packing Control Intervals
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- Inactivity Timeout
- MTU Size

SECURITY

Q: Does the XPort Direct support AES Encryption?

A: No, the XPort Direct does not currently support AES Encryption.

GPIO PINS/CONTROL PINS

Q: How many control pins are available on the XPort Direct?

A: The XPort Direct has 2 pins.

CUSTOM APPLICATION DEVELOPMENT

Q: Is the XPort Direct supported by Lantronix CoBos Programming Kit (CPK)?

A: No, please contact your Lantronix Sales Representative for a review of your customization requirements. Wherever feasible, Lantronix will attempt to support your needs for a high volume deployment opportunity.

TARGET MARKETS

Q: What are the target markets for the XPort Direct?

A: The XPort Direct is targeted at lower priced devices that are sold in high volumes. The list of applications and devices is limited only by your imagination.

A small sampling of the markets for this module include the following:

- Home automation
 - Residential Alarm Panels
 - Alarms over broadband
 - White Goods
 - Networked Control and Notification
 - Commercial Temperature Sensors and controllers
 - Remote Data Acquisition (Insurance purposes)
 - Building automation Equipment
 - HVAC Controllers
 - Remote Data Acquisition and Control
 - Consumer electronics
 - Audio equipment., iPod/PMP Docking stations
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- Networked Remote Control
- Audio Content Streaming
- Vending machines
- Point of sale (POS) products
- Electric & Gas meters
 - Remote Data Acquisition over broadband
- RFID Readers
 - Ethernet Bridging
- UPS Power Supplies
 - Remote Monitoring

DIFFERENCES TO XPort

Q: What are the differences between the XPort Direct and the XPort?

A: Please see the feature comparison chart below:

Feature Comparison – XPort Direct & XPort

Features	XPort Direct	XPort
<i>Protocol Support</i>		
TCP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
UDP client-server	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ICMP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Telnet	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ARP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DHCP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BOOTP & AUTOIP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TFTP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SNMP		<input checked="" type="checkbox"/>
Web Server (HTTP)		<input checked="" type="checkbox"/>
Java Applets or Scripts		<input checked="" type="checkbox"/>
Password Protection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Features	XPort Direct	XPort
<i>Modem Signals</i>		
RTS, CTS, DTR, DCD/Modem Control Input	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>General Purpose I/O</i>	2	3
<i>AES encryption</i>		<input checked="" type="checkbox"/>
<i>Modem mode</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Manual mode</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CPK (Software Development Kit)		<input checked="" type="checkbox"/>
<i>Flash</i>	128K	512K
<i>Maximum Serial Throughput</i>	230 Kbps	921 Kbps
<i>WebManager</i>		<input checked="" type="checkbox"/>
<i>Email Client</i>		<input checked="" type="checkbox"/>
<i>Operating Temperature</i>	0 to 70C	-40 to 85C and 0 to 70C