



LYNX IoT Gateway

Bluetooth, WiFi, GPS, 3G
Serial, Ethernet and discrete I/O
PoE (Powered Device)
6-60VDC Supply
Powerful Intel® Quark™ CPU
Wind River™ Linux or OpenWRT
USB host and device
Digi XBee® and XBee-PRO®

Processing power

Built with industrial-rated components and equipped with an Intel Quark SoC, this device can handle demanding processor applications.

Integrated wireless

Wireless connectivity: 2G/3G, GPS, WiFi and Bluetooth coexisting. Other radio options including Digi XBee® and XBee-PRO® modules, can be supported on customised expansion cards

Lockable SIM

The discreet lockable cover offers improved SIM security and prevents tampering.



Wide input range

Powered from a wide input range of 6–60VDC. Includes surge and reverse polarity protection.

PoE

For increased installation flexibility, the device may be powered over Ethernet.

Wind River Linux

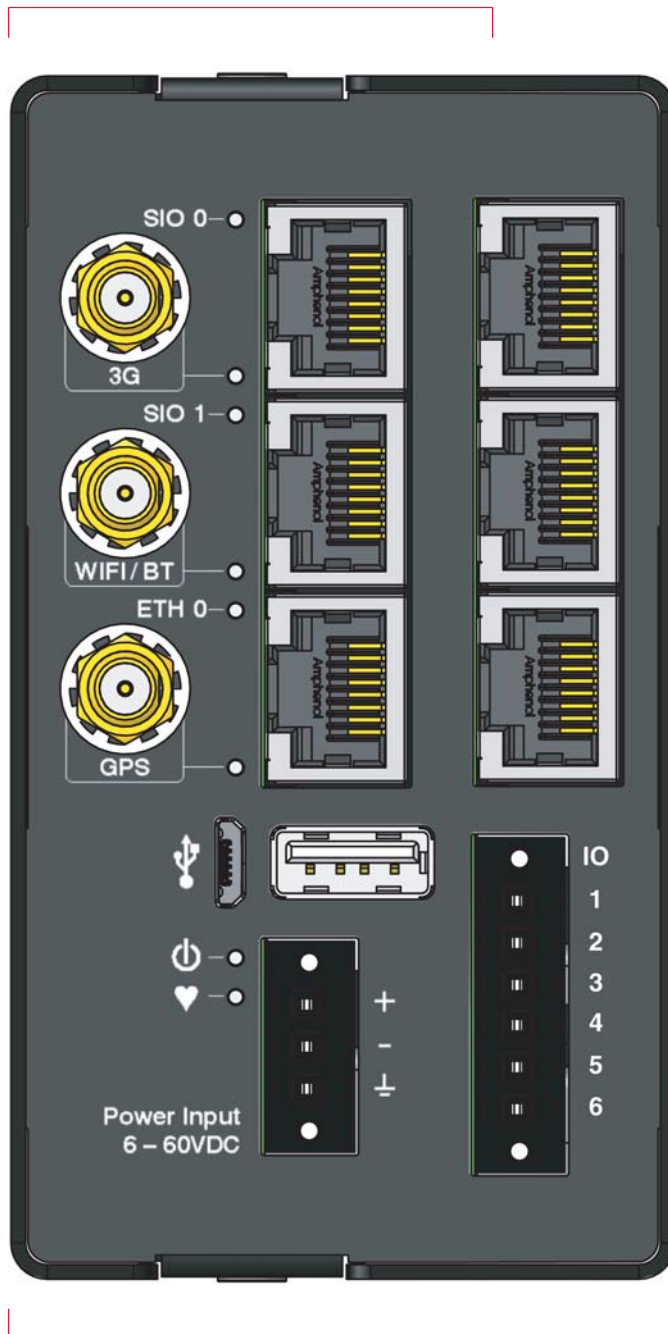
Secure, flexible and powerful Intelligent Device Platform XT lets you focus on your application.

Ultra-low power

Highly efficient ultra-low power processor renders an average power consumption < 2W.

DIN mount IoT platform is built in Australia with industrial-rated components, Wind River Linux OS, and a powerful x86 Intel processor. Designed as a low-cost, flexible platform for a wide range of industrial communication and ITS requirements.

Standard housing



Wider housing

Customised expansion

Customised expansion cards offer options for additional comms ports, fully isolated I/O terminals, and many other customer requirements.

Additional options

Ethernet

- GigaBit
- PoE
- PoE (PD or PSE)

Serial

- Isolated
- RS-232/485/422

Digital I/O

- Pulse Counting
- Relay

Analog I/O

- Isolated
- 4-20mA

Wireless radio

- 433MHz,
- 915MHz,
- 5GHz
- 802.11
- ZigBee, HART, 6LoWPAN
- Digi XBee® and XBee-PRO®

xDSL

- ADSL
- SHDSL
- VDSL

The modular 'clam shell' design of this device allows us to add any of the listed optional features into a slightly wider housing. Bespoke designs to meet specific client requirements can be realised quickly, even in modest quantities.

Key features

Linux based OS	Secure, flexible and powerful—lets you focus on your application
Low power design	Employing new generation Intel embedded processor
Wide range power input	Operates on 6–60VDC input
Communication options	A wide range of LAN and WAN options allows communication with any network
Wide operating temperature	Industrial temperature rated electronics for robust long-term performance at -40°C to 85°C
Customised I/O	Ability to support a wide range of unique I/O requirements via implementation of customer-specific expansion boards

Technical specifications

CPU	Intel Quark X1021D SoC, 400MHz
Memory	1GB DDR3 onboard 8GB eMMC Accessible micro SD slot Real time clock, battery backed
Operating system	Wind River Linux with Intelligent Device Platform XT (or OpenWRT)
Power input	External DC input: 6–60VDC PoE device
Power consumption	2W average, 6W peak
Wired communications	1 x 10/100Mbps Ethernet 2 x serial RS-232 1 x USB 2.0 HS/FS host 1 x micro USB serial console device
Wireless communications	WiFi 802.11(b/g/n) Bluetooth 2.1 + EDR 2G/3G HSPA GPS (active and passive antenna)
Environmental	Operating temperature: -40°C to 85°C; -40°F to 185°F Storage temperature: -40°C to 85°C; -40°F to 185°F IP30
Dimensions	110mm x 40mm x 100mm; 4.3 inches x 1.6 inches x 4.0 inches
Weight	270g; 9.5oz
Common additional options	Ethernet ports Serial ports Digital I/O Analog I/O Fibre I/O 433MHz, 915MHz, 5GHz radios ADSL, SHDSL Digi XBee [®] and XBee-PRO [®] RF modules Other options available

Typical application

Bluetooth travel speed survey



Travel speed vs Time of day Between two exit ramps: Total data samples: 2467

