

All IDU Model



IDU & ODU Option



High-Capacity Wireless Backhaul

Proxim Wireless offers extremely reliable, secure and easily-deployed solutions for interconnecting corporate and telecommunications networks.

This portfolio includes:

- **GigaLink®** –
Alternative to fiber, up to Gigabit speed
- **Lynx.GX®** –
Cellular voice and data backhaul, up to DS3 interface
- **Tsunami.GX®** –
Carrier-class IP Ethernet bridge for voice and data backhaul for service providers and enterprise applications
- **QuickBridge™** –
Complete “hop-in-a-box” Ethernet bridge for campus and small business network.

Proxim Wireless is a global provider of end-to-end broadband wireless systems that deliver the quadruple play. From Wi-Fi to wireless Gigabit Ethernet – our WLAN, mesh, WiMAX and point-to-point products are available through our extensive global channel networks.

Proxim’s Lynx.G5 family of products combine high-performance, security and flexibility into the industry’s most advanced point-to-point solutions. These products provide carriers, utilities and enterprises advanced security and flexibility for high-performance voice, video and data backhaul by enabling the choice between any frequency in the 2.4 GHz or 5.15-6.08 GHz unlicensed spectrum – all in a single radio. This not only provides maximum flexibility when deployed in the field but also eliminates the challenge of managing an inventory of multiple products. With support for both T1/E1 interfaces as well as Ethernet, the Lynx.G5 future-proofs backhaul deployments by supporting both technologies simultaneously and providing a simple migration path to IP as the industry moves towards T1 or E1 replacement.

The Lynx.G5 fulfills the three key requirements for effective high-capacity backhaul: high performance, security and flexibility.

High Performance

- Merging the field-proven architecture of the existing Proxim Lynx.GX and Tsunami™ product families, the Lynx.G5 features the same high-performance and dependability for which Proxim products are known
- 4T1/E1 and 8T1 models – both of which have a 10/100 Ethernet interface
- Automatic silence detection and compression for increased throughput capacity, as well as QOS and packet filtering
- Adaptive modulation technology to maximize spectral efficiency
- IP Packet Filtering and QOS on every Ethernet IP packet

Security

- Hardware-based, RSA-certified AES encryption to secure the radio link without any impact to performance
- Proxim’s WOPR (Wireless Outdoor Routing Protocol) and MD5 authentication provide additional security between Point-to-Point units

Flexibility

- Integrated support of the 2.4 GHz and 5.15-6.08 GHz unlicensed spectrums in a single radio
- Support for 5, 10 or 20 MHz channels
- Software configurable, making it simple to reconfigure radios when deploying in the field
- Support for both T1/E1 interfaces as well as 10/100 Ethernet for the support of both TDM and packet data
- SNMP, CLI and Web interfaces for flexible remote management

PRODUCT MODEL	Lynx.G5 Series
LG5-4T	Lynx.G5 2.4 and 5 GHz – all IDU 4T1 (bundle)
LG5-8T	Lynx.G5 2.4 and 5 GHz – all IDU 8T1 (bundle)
LG5-4T-RC	Lynx.G5 2.4 and 5 GHz – IDU/ODU 4T1 Connectorized (bundle)
LG5-8T-RC	Lynx.G5 2.4 and 5 GHz – IDU/ODU 8T1 Connectorized (bundle)
LG5-4T-LRC	Lynx.G5 5 GHz Long Range – IDU/ODU 4T1 Connectorized (bundle)
LG5-4E-LRC	Lynx.G5 5 GHz Long Range – IDU/ODU 4E1 Connectorized (bundle)
LG5-8T-LRC	Lynx.G5 5 GHz Long Range – IDU/ODU 8T1 Connectorized (bundle)
LG5-4T-LR	Lynx.G5 5 GHz Long Range – IDU/ODU 4T1 Integrated Antenna (bundle)
LG5-4E-LR	Lynx.G5 5 GHz Long Range – IDU/ODU 4E1 Integrated Antenna (bundle)
LG5-8T-LR	Lynx.G5 5 GHz Long Range – IDU/ODU 8T1 Integrated Antenna (bundle)
RADIO & TRANSMISSION	
UNLICENSED FREQUENCIES	2.4 – 2.4835 GHz (13 channels) Americas FCC 2.4 – 2.4835 GHz (13 channels) Europe ETSI 2.4 – 2.4835 GHz (13 channels) Japan (MCK) 5.25 – 5.35 GHz (15 channels) Americas FCC 5.47 – 5.725 GHz (46 channels) Americas FCC 5.725 – 5.850 GHz (21 channels) Americas FCC 5.47 – 5.725 GHz (46 channels) Europe ETSI
LICENSED FREQUENCIES	5.15 – 6.08 GHz (185 channels) (Russia) 5.725 – 5.850 GHz (21 channels) (UK only) 5.825 – 5.875 GHz (9 channels) (India only) 5.85 - 5.95 GHz (19 channels) Transportation (ITS)
PHYSICAL SPECIFICATONS	
CHANNEL BANDWIDTH	5Mhz, 10 MHz, 20 MHz
SOFTWARE CONFIGURATION	2.4 and 5 GHz frequencies available in a single IDU or IDU/ODU combination Software selectable frequencies No separate sparing for 2.4 GHz and 5 GHz
MODULATION	OFDM: 64QAM; 16QAM; QPSK; BPSK
RANGE	Up to 20 miles*
DIMENSIONS	19 x 12 x 1.75 inch (IDU and integrated IDU + radio) 12 x 12 x 3.5 inch (ODU with integrated antenna)
MOUNTING	Option 1: 1U EIA Rackmount IDU (5 lbs) plus Polemount RF ODU (optional integrated antenna) (6 lbs) Option 2: 1U EIA Rackmount IDU with integrated ODU (7 lbs)
DIGITAL LINE INTERFACE	DSX-1 or CEPT-1 (4 or 8 each) SW selectable RJ-48C jack
SECURITY	AES-CCM encryption, WOPR and MD5 authentication
MANAGEMENT	RS232, Telnet, Web GUI, TFTP, SNMP, MIBs
POWER / ENVIRONMENT	
INPUT	90-260VAC; -48V DC
POWER CONSUMPTION	<40 Watts
POWER CONNECTOR	Euro connector (AC); screw terminal (DC)
OUTPUT POWER	Up to 16 dBm (up to 25 dBm for the Long Range ODU)
OPERATING TEMPERATURE	IDU: 0-+50 degrees Celsius, ODU: -33-+60 degrees Celsius
HUMIDITY	IDU : 95%, non-condensing, ODU : 100%, non-condensing
WIND LOADING	125 MPH (200 Kmph)
INTERFACES & OTHER SPECIFICATIONS	
CABLE TO ODU	Shielded CAT5 (for split IDU/ODU variant)
DATA RATE	54, 48, 36, 24, 18, 12, 9, 6, 4.5, 3, 2.25, 1.5 Mbps
RECEIVE SENSITIVITY	-77, -78, -83, -85, -89, -91, -92, -93, -95, -97, -97 dBm
TRANSMIT POWER CONTROL	0 to -16 dB in 1 dB steps
ANTENNAS	Antenna Port – Type N female connector Integrated Antenna (optional)
EXTERNAL ANTENNA GAIN	Up to 33.4 dBi
ANTENNA ALIGNMENT	Audio tone with IDU/ODU model, CLI

*Under ideal operating conditions, based on RF planning, 99.995% one-way RF link availability, average climate/terrain, no multipath reflection. Assumes FCC regulations for EIRP.