



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 combines 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 a single Lynx.G5 to software select a frequency from many unlicensed and licensed spectrums. 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 models – both of which have a 10/100 Ethernet interface for simultaneous IP transmission
- Maximizes Ethernet traffic throughput by detecting silence and compressing the T1/E1 payload
- Adaptive modulation enhances network uptime by adjusting to RF conditions such as Interference
- IP Packet Filtering and QOS on every Ethernet IP packet

Security

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

Flexibility

- Integrated support of 5.15 - 6.08 GHz licensed and unlicensed spectrums in a single radio
- Support for 5, 10 or 20 MHz channels
- Software configurable radios reduces stocking and sparing cost
- Support for both T1/E1 interfaces as well as 10/100 Ethernet for the support of both TDM and packet data
- SNMP and CLI interfaces for flexible remote management

PRODUCT MODEL	Lynx.G5 5 GHz Long Range (LG5-4T-LRC) – IDU/ODU 4T1 Connectorized (bundle) Lynx.G5 5 GHz Long Range (LG5-4E-LRC) – IDU/ODU 4E1 Connectorized (bundle)
UNLICENSED FREQUENCIES	Americas (FCC) : 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) Europe (ETSI) : 5.47 – 5.725 GHz (46 channels)
LICENSED FREQUENCIES	Russia : 5.15 – 6.08 GHz (185 channels) UK only : 5.725 – 5.850 GHz (21 channels) India only : 5.825 – 5.875 GHz (9 channels)
MODULATION METHOD	OFDM: 64QAM; 16QAM; QPSK; BPSK
CHANNEL SIZE	20, 10 and 5 MHz
DATA RATE	54, 48, 36, 24, 18, 12, 9, 6, 4.5, 3, 2.25, 1.5 Mbps
TRAFFIC TYPE	Supports framed/unframed traffic (ITU-T G.703/G.704)
Tx POWER	Up to 21 dBm
Tx POWER CONTROL	0 – 18 dB, in 1dB steps
Rx SENSITIVITY	-77, -78, -83, -85, -89, -91, -92, -93, -95, -97, -97 dBm
RANGE	Range of up to 20 miles *
DIMENSIONS	14.6 x 8.5 x 1.75 inch (IDU) 12 x 12 x 3.5 inch (ODU)
MOUNTING	1U EIA Rackmount IDU (5 lbs) plus Polemount RF ODU (6 lbs)
DIGITAL LINE INTERFACE	DSX-1 or CEPT-1 (4) SW selectable RJ-48C jack
SECURITY	AES 128-bit encryption, WOPR and MD5 authentication
MANAGEMENT	RS232, Telnet, Web GUI, TFTP, SNMP, MIBs
POWER ENVIRONMENT	110 – 240 V, 48 VDC
POWER CONSUMPTION	Max 20 Watts
POWER CONNECTOR	Connector (AC); screw terminal (DC)
OPERATING TEMPERATURE	IDU: 0 to +50 degrees Celsius, ODU: -33 to +60 degrees Celsius
HUMIDITY	IDU: 95%, non-condensing, ODU: 100% Condensing
WIND LOADING	125 MPH (200 Kmph)
CABLE TO ODU	Shielded CAT5 (for split IDU/ODU variant)
ANTENNAS	Antenna Port – Type N female connector
EXTERNAL ANTENNA GAIN	Up to 33.4 dBi
ANTENNA ALIGNMENT	Audio tone with ODU model, CLI

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

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