

All IDU Model



IDU & ODU Option



Proxim's 5th generation Lynx products extend its lead in carrier-class point-to-point radios. These products provide carriers, utilities and enterprises advanced flexibility for high-performance voice, video and data backhaul by enabling the choice between any frequency in the 2.4 GHz or 5.1-6.0 GHz unlicensed spectrum. 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 radio link is secured via RSA certified hardware-based AES encryption.

High Performance, Frequency Agile, Carrier Class Point to Point Radio

- 4T1/E1 + 1 10/100Mbps ethernet or 8T1 + 1 10/100Mbps. Excess capacity is automatically utilized on the ethernet port. As the infrastructure transitions from T1 to IP this capacity will automatically migrate with it
- Software configurable radio supporting 2.4 GHz and 5.1 GHz -6.0 GHz with support for 5, 10 or 20MHz channels
- Built-in silence detection and redundant data compression for increased data capacity
- Traffic filtering and QOS on additional ethernet port

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, point-to-multipoint and point-to-point products are available through our extensive global channel networks.

Easy to Install

- Audio alignment allows the installer to quickly align the units for IDU/ODU
- Adaptive Modulation helps to automatically configure the unit
- Gender neutral radio obviates the need for high band and low band radios
- ScanTool software is included for network discovery

Easy to Manage

- The radio can be managed remotely using SNMP, web or CLI for maximum flexibility
- Configuration Back-up and Restore via TFTP

Secure

- HW based AES Encryption secures the radio link with RSA certified encryption with no impact to data capacity or performance
- Proxim's WORP (Wireless Outdoor Routing Protocol) and MD5 authentication provide additional security between Point-to-Point units

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 (MKK) 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 SPECIFICATIONS	
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 15 miles (24 miles using Long Range 5.8 GHz ODU) with 99.995% availability
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, WORM 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, -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