

Lynx.GX 4E, 8E

Wireless Point-to-Point Digital Radios

New Manageability and Installation Flexibility Lowers Total Cost of Ownership (TCO)

Lynx[®].GX is a high-capacity, full-duplex point-to-point digital radio product line with a unique split-box design. This new generation of products, designed for maximum installation flexibility, provides unprecedented system gain and carrier-class operational features for cellular backhaul, enterprise voice applications and voice network redundancy.

- Adapts to individual maintenance, system performance, and budget requirements to fit a variety of specific operator needs
- Simplifies future upgrades by requiring only Indoor Unit (IDU) replacement as capacity requirements grow
- Two-piece split-box assembly, consisting of an Indoor Unit (IDU) and an RF Unit, provides installation flexibility
- Indoor-only installation facilitates quick maintenance and easier upgrades
- Indoor/outdoor installation improves system gain, lowers tower leasing costs and reduces total cost of ownership

Easily Manage and Troubleshoot Your Wireless Network

Lynx.GX radios offer sophisticated, preventative management tools to simplify network maintenance and eliminate downtime. Advanced diagnostic tools identify and isolate potential issues before they impact the network.

- Standards-based SNMP management and webbased GUI simplifies remote management and integrates easily into existing software platforms
- Built-in spectrum analyzer and an alarm log facilitate RF planning and post-deployment tuning

Cost-Effectively Prepare For Future Growth

The range of Lynx products gives operators the choice of capacity they need, allowing them to grow to support higher-bandwidth cellular backhaul applications.

- Extra capacity for bandwidth-intensive applications such as multimedia services, photo sharing, text messaging and handset Internet access
- Superior system gain ensures consistent, carrierclass transmission of growing network traffic
- No expensive recurring leased line costs
- Wayside Ethernet Channel enables far-end management of both Proxim and Non-Proxim equipment

Deploy in Days

Because Lynx radios operate in license-exempt ISM frequency bands, they can be deployed quickly – eliminating the long lead times associated with leasing lines or trenching new fiber optic cable.

- · Rapid deployment and flexible re-deployment
- · Mobile operators minimize costly network downtime
- License-exempt frequencies accelerate time-to-revenue by avoiding lengthy and costly licensing procedures

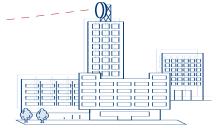
Reliable and Secure

Lynx radios offer the highest security and reliability available in networking today.

- True Carrier-Class reliability
- Over 99.999% reliable RF transmission
- · Meets or exceeds wired network security
- Proprietary encryption methods ensure secure data transmission

Cell Site

Cell Site & Drop Site



Switch Office or Closest Access Point



APPLICATIONS

- Cellular voice backhaul
- Backbone connection
- High-capacity voice network redundancy

Lynx.GX 4E, 8E Specifications

PRODUCT FREQUE BAND	NCY DIGITAL CAPACITY	CHANNEL PAIRS	THRESHOLD (BER=1X10 ⁻⁶)	OUTPUT POWER ¹	SYSTEM GAIN		DISTANCE (MILES/KN	
Lynx.GX 4xE1 Lynx.GX 8xE1 5725-5	850 MHz 4xE1 (4x1.544 Mi 8xE1 (8x2.0 Mbps		≤-88 dBm ≤-85 dBm	+23.5 dBm	111.5 dB, 114 108.5 dB, 112		>36/58.1 >32.8/52	
SYSTEM			PHYSICAL D	IMENSIONS				
Configuration Split-box: IDU, RF Unit			IDU RF Unit					
Modulation DSSS; QPSK				0.9 X 1.72/ 14.1 X 10.9 X 1.72/				
Frequency Stability ±10 ppm			0120 (11/0111)	43.6 X 27.		.8 X 27.6		
RF Attenuation Range ≥20 dB			Weight (lbs/kg)	Veight (lbs/kg) 6.5/2.9 12.0/5.4				
Maximum Receive Signal	-20 dBm error free; 0 dE	3m no damage	MECHANICAL					
Error Floor	<10-11		RF Unit					
Error Correction	Reed-Solomon		Antenna Port Type-N female					
Security	12 character Link ID (48	bits)	(outdoor RF cable not provided)				rovided)	
Regulatory Compliance	CEPT-1:ITU-TG703	,	IDU Port TNC		TNC female	female		
FCC ID HZB-S58-GX1			Cable to IDU LMR-240 or equiv. <100m;					
DIGITAL LINE INTERF					LMR-400 or e			
CEPT-1 (4 or 8 each)			Mounting		LMR-600 or e	yuiv. <300	וווע	
Connector	RJ-48C modular jack		Mounting IDU		EIA rackmoun	+ 10" or	101 "22"	
Line Code	HDB3		RF Unit					
Loopback	Local, Far End, Internal	Local, Far End, Internal Signal			EIA rackmount, 19" or 23", 1RU, outdoor pole mount bracket (opti-			
AUXILIARY INTERFA	CES		SELECTABLE	FREQUENC			V-1	
Orderwire (DTMF)	RJ-11, 100 addresses							
VF	8 pin modular jack, 4-w 0dBm @ 600 ohm, bala		5.8 GHz, 4xE1	A1 A	2 B 1 E	32 \ C'	I C2	
Aux Data (serial)	8 pin modular jack, EIA-	561		5731.5 581	V	330 5758	V	
	≤19.2kbps, selectable, E	-	5.8 GHz,					
	JRATION MANAGEMEN		8xE1	A1 A	2 B 1 E	32		
Network Management	SNMP v2c (MIB II, enter MIBs), embedded HTMI VT-100 terminal			5734 581		341		
Far End Management		Via NMS (embedded router, gateway address, subnet mask), front panel display		NFORMATIC	ON			
rai Ena Management				Lynx.GX 4E, Low Band Termir		Terminal		
					Lynx.GX 4E, High Band Termina		Terminal	
Interfaces			62144		Lynx.GX 8E, Lo	ow Band ⁻	Terminal	
NMS 1		10/100BaseT, RJ-45, auto-sense			Lynx.GX 8E, High Band Terminal			
NMS 2 Configuration (serial)	10/100BaseT, RJ-45, aut EIA-574, 9600bps, 9-pi		ACC-GX-RF-2		Optional RF Unit Outdoor Mounting Kit			
External Alarm Interface			201-31075-1		Optional AC A	Adapter 1	10/220 VA	
Connector	9-pin Sub-D female				with cable and	d connect	or	
Outputs	2 Form C Relays (Major, N		SHIPPING CO	ONFIGURATI	ON			
Inputs	2 TTL with internal pull-	ups	Lynx.GX 4E or 8					
POWER/ENVIRONME			Lynx.GX Low Ba					
nput Voltage Range	-20 to -60 Vdc or			ACC-GX-IF-1 IDU Mounting Kit				
	+20 to +60 Vdc		ACC-GX-RF-1 RF Unit Indoor Mounting Kit (includes 12" IDU to RFU cable)					
Power Consumption	<70 Watts	Quick Install Guide						
Power Connector	3-pin terminal block		CD-User Docum					
Operating Temperature	000 5000							
IDU RF Unit	0°C to +50°C -30°C to +55°C							
Humidity	-30 C 10 +33 C							
IDU	95%, non-condensing							
RF Unit	100%, condensing							
Altitude	up to 15,000 ft/5000 m	1						
Wind Loading (RF unit)	up to 110 mph/96 kts	- <u> </u>						
MTBF	>100,000 hours	¹ Output power i	s specified at ze	ro attenuation				
	(each IDU and RF Unit))	⁴ RF Unit installed outdoors with 8ft. parabolic antenna, 99.999% one-w RF link availability, average climate/terrain, no multipath reflection.					

