NX-GEN-S 900



Licensed Point to Point 900 Mhz Microwave Radio

High quality Digital Radios with a common Control/Mux Indoor Unit offering multiple configurable Data Interfaces, that can be paired with interchangeable, separate RF Units from 400Mhz to 38Ghz allowing data rates of 64Kb/s up to 150Mb/s

FEATURES

- 2 x T1/E1 Standard
- Ethernet with VLAN and OoS
- XPIC Doubles Capacity
- Data Rate Configured to Customer Requirements
- Frequency-agile within each band
- Flexible Bandwidth
- SNMP-NMS with constellation display
- Modulation Schemes 4QAM
 to 128 QAM



The NX-GEN ODU option allows installation of RF electronics outdoors closer to the antenna, reducing RF cable losses.



NX-GEN-S 900

SPECIFICATIONS

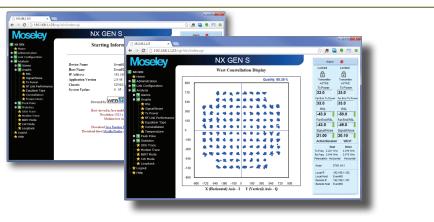
SYSTEM		TRANSMITTER		
FREQUENCY	932-944 MHz; 953-960 MHz (fully synthesized)	ТҮРЕ	Superheterodyne Conversion	
STEP SIZE	For all other frequencies, consult factory. 1 kHz	POWER OUT	29 dBm for TR Spacing of 9 MHz 27 dBm for TR Spacing of 3.6 MHz	
CHANNEL BANDWIDTH	100 KHz / 200 KHz Mode and modem option	FREQUENCY STABILITY	± 1.5 ppm	
DATA RATES	100 - 1000 Kbps (depending on Modulation and Bandwidth)	RECEIVER		
MODULATION	QPSK 7/8, 16 QAM, 32 QAM, 64 QAM, 128 QAM	ТҮРЕ	Superheterodyne Conversion	
TEMPERATURE RANGE	Full Performance: 0° to + 50° C.		-100 dBm (typical, depending on	
POWER SOURCE	24/48 VDC standard, 80W nominal (optional 115/230 VAC)		data rate/modulation/FEC)	
DIAGNOSTICS	Local and remote status and control, Monitoring of BER, RSL, Alarms,	PACKAGE		
	and Status via Web Server and SNMP	ТҮРЕ	Rack Mount	
INTERFACES	2 x E1/T1, 10/100/1000BaseT Electrical	RF Dimensions	2RU - 17 x 11.5 x 3.5 inches Weight 8.2 lbs	
UNFADED BER	1 x 10 ⁻¹²			
ERROR CORRECTION	Trellis-Coded Modulation, Concatenated with Reed-Solomon Coding + Trellis-Coded Correction	IDU Dimensions	1RU - 17.5 x 10 x 1.75 inches Weight 6.8 lbs.	
PROTECTION	Space, Frequency, or Cold/Hot Standby	ODU Dimensions	8.5 x 14 x 4 inches Weight 16 lbs.	
STANDARDS	FCC part 101	Shipping Dimensions	22 x 22 x 10 inch 30lb	

TOANONUTTED

NETWORK MANAGEMENT

- SNMP VERSION 4.5

- BUILT-IN WEB SERVER
- REMOTE MONITORING
- MULTILEVEL ACCESS AND PERMISSIONS
- NETWORK DATA ENCRYPTION
- CONSTELLATION DISPLAY



SYSTEM PERFORMANCE

100 kHz CHANNEL	QPSK 7/8	16 QAM 15/16	32 QAM 19/20	64 QAM 23/24	128 QAM 20/21		
CAPACITY	130 kbit/s	290 kbit/s	380 kbit/s	460 kbit/s	530 kbit/s		
RECEIVER SENSITIVITY	-108 dBm	-101 dBm	–97 dBm	–93 dBm	–89 dBm		
SYSTEM GAIN	137 dB	130 dB	126 dB	122 dB	118 dB		
200 kHz CHANNEL							
CAPACITY	260 kbit/s	570 kbit/s	730 kbit/s	890 kbit/s	1030 kbit/s		
RECEIVER SENSITIVITY	–105 dBm	–98 dBm	–94 dBm	–90 dBm	–87 dBm		
SYSTEM GAIN	134 dB	127 dB	123 dB	119 dB	116 dB		

As a dominant innovator in the wireless industry since 1959, you can be assured Moseley will be with you every step of the way.



Moseley Associates Incorporated • 82 Coromar Drive • Santa Barbara, CA 93117-3093 • Phone (805) 968-9621 • Fax (805) 685-9638 • Web http://moseleytelecom.com These specifications are subject to change without notice. Rev. 319F2E