

NX-GEN-S L-Band



Digital Radio Links

Extra Capacity to Double your Payload...

The NX-GEN-S L-Band Digital Radio Link delivers interchangeable frequency RF Units with different data interfaces for radio. The digital modulation with programmable Pilots, Reed-Solomon and Trellis-Coded Error Correction, provides unparalleled error-free performance.

FEATURES

- 16 x T1/E1
- Ethernet
- XPIC
- Data Rate Configured to Customer Requirements
- Frequency-agile within each band
- Flexible Bandwidth

FLEXIBLE MODULARITY

NX-GEN-S's intelligent, modular design affords complete flexibility and control in any situation. It conforms to global standards, ensuring an array of possibilities now, and in the future filled with innovation and enhancement.

SPECTRUM SCALABILITY

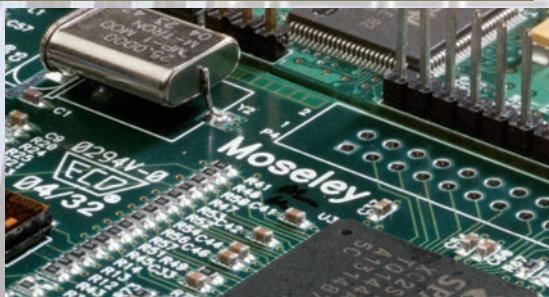
The only digital radio of its kind, the DTV Link-A allows the user to specify its occupied spectrum according to the operational data rate. This ability offers operators full network design flexibility and optimal use of limited frequencies.

PROGRAMMABLE SPECTRAL EFFICIENCY

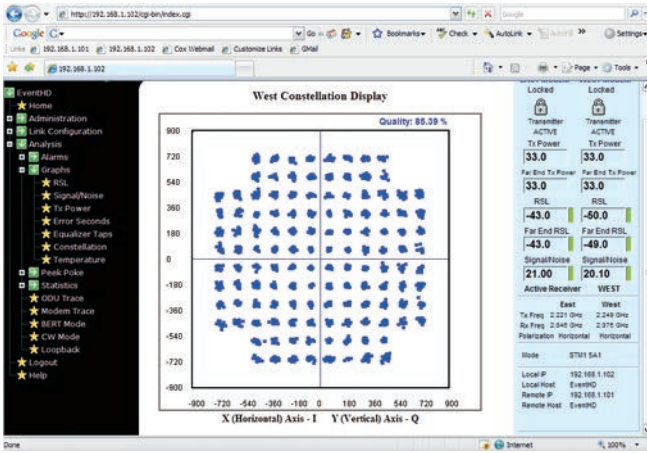
The NX-GEN-S can be configured for 4 QAM, 16 QAM, 32 QAM, 64 QAM, 128 QAM, and 256 QAM. This allows operators to trade spectral efficiency for system gain in this single-carrier system.

NETWORK MANAGEMENT

The NX-GEN-S provides superior Network Management capability with its built-in Web Server and SNMP software. Unmatched system analysis and monitoring can be utilized to create multilevel system alarms. Remote monitoring and control of your entire microwave network is simplified. System security is paramount; the NX-GEN-S features multilevel configuration permissions and network data encryption. Accounting and logging features provide protection and information about access attempts.



MOSELEY ASSOCIATES IS THE LEADER IN DIGITAL STL TRANSMISSION SYSTEMS FOR THE BROADCASTING INDUSTRY. FOR MORE INFORMATION VISIT US AT www.moseleysb.com.



Web-based Interface

OPTION RICH

The NX-GEN-S features many optional enhancements, such as 16xE1/T1 MUX, Ethernet, Auxiliary channel and others (Digital Audio/Digital Video Interfaces) providing a multitude of possibilities to fulfill networking requirements.

UNPARALLELED ROBUSTNESS

To overcome industrial and other man-made impulse noise as well as other burst-mode interferences, powerful Reed-Solomon and Trellis-Coded Error Correction is standard. Unfaded BER error-free performance in excess of 10-12 is unparalleled.

An interleaver further enhances error concealment. In addition, an adaptive equalizer, and Pilots overcomes multipath and other channel impairments.

INHERENTLY ADAPTIVE

The NX-GEN-S excels in many applications, including with the XPIC Option you can double the capacity of the link by transmitting in horizontal and vertical over a single frequency.

APPLICATIONS

- Ethernet traffic
- Multi-hop Systems
- Long Hops
- P25 Base Station interconnection

BENEFITS

- Economical Digital Link
- Optional plug-in OC3, DVB-ASI, AES Audio
- Selectable Efficiency
4 - 256 QAM
- Programmable speeds
200Kbps - 310 Mbps
- Degradation free multiple repeaters

...and quadruple your peace of mind.

SYSTEM

FREQUENCY	220MHz to 3GHz in Selected Band (fully synthesized) For all other frequencies, consult factory.
STEP SIZE	1 kHz
DATA RATES	20 - 155 Mbps
MODULATION	QPSK, 16 QAM, 32 QAM, 64 QAM, 128 QAM, 256 QAM
TEMPERATURE RANGE	Ful Performance: 0° to + 50° C.
POWER SOURCE	24/48 VDC optional 115/230 VAC)
DIAGNOSTICS	Local and remote status and control, Monitoring of BER, RSL, Alarms, and Status via Web Server and SNMP
INTERFACES	16 x E1/T1, 10/100BaseT Electrical
UNFADED BER	1 x 10 ⁻¹²
ERROR CORRECTION	Trellis-Coded Modulation, Concatenated with Reed-Solomon Coding + Trellis-Coded Correction 1/2, 3/4, 5/6, 7/8, 9/10, 11/12, 15/16, 19/20
PROTECTION	Space, Frequency, or Cold/Hot Standby
STANDARDS	ETS 300, 385 EMC/EMI and FCC part 74/94/101

PACKAGE

TYPE	Rack Mount
Unit Dimensions	17.5 x 5.25 x 13 inch 44.45 x 13.35 x 34.3 cm
Shipping Dimensions	22 x 22 x 10 inch 30lb

TRANSMITTER

TYPE	Superheterodyne Conversion
FREQUENCY	220MHz to 3GHz in Selected band (fully synthesized) for other frequencies, consult factory
POWER OUT	4 Watt average for 16 QAM @ 6/7/8 GHz for high power, consult factory
STEP SIZE	1 KHz
OCCUPIED BANDWIDTH	200KHz - 60 MHz dependent on operating mode and modem option
MONITORING	Local Web Server with SNMP with Programmable Relays
TUNING RANGE	500 MHz Band dependent on frequency

RECEIVER

TYPE	Superheterodyne Conversion
FREQUENCY	220MHz to 3GHz in Selected band (fully synthesized) for other frequencies, consult factory
RECEIVE SENSITIVITY	-100 dBm (typical, depending on data rate/modulation/FEC)
STEP SIZE	1 KHz
CHANNEL BANDWIDTH	200KHz - 60 MHz dependent on operating mode and modem option
MONITORING	Local Web Server with SNMP with Programmable Relays

Moseley has been the dominant name in the studio-transmitter link business since 1959. With our remote LAN and high-definition digital broadcast products and our knowledgeable support staff, you can be assured that we'll be there with you every step of the way.

