DTV Link-AM

Modular Digital Links for Video

Moseley

Rarely does technology have the power...

The DTV Link-AM is a mudular unit that delivers economical, single or multiple DVB-ASI or SMPTE-310 Streams. Transporting data associated with specific DVB-T2-MI / ISDBT-International streams to the transmitter site. The digital modulation utilizes Reed-Solomon and Trellis-Coded Error Correction to provide unparalleled error-free performance.

FEATURES

- DVB-ASI / SMPTE-310 (8 Interfaces)
- Transport DVB T2-MI Data Rate
- Transport ISDB-Tb or SBTVD
- E1/T1 + GigE
- Data Rate and Bandwidth Configured to Customer Requirements
- Frequency-agile within each band

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

FLEXIBLE MODULARITY

DTV Link-AM'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

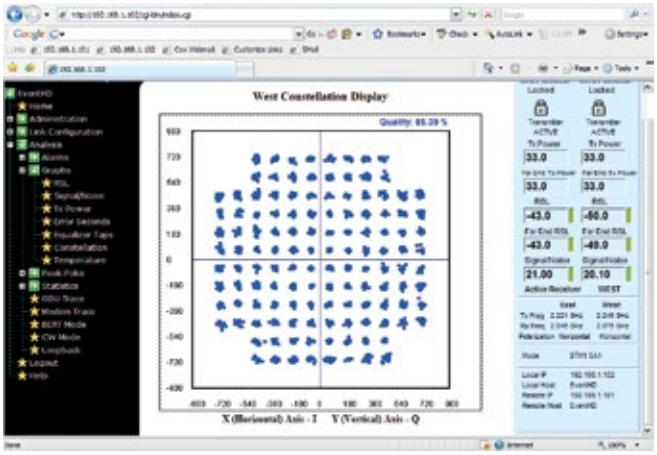
The only digital radio of its kind, the DTV Link-AM allows the user to specify its occupied spectrum according to the operational data rate. This ability offers operators full network design flexibility and optimal use of limited frequencies.

PROGRAMMABLE SPECTRAL EFFICIENCY

The DTV Link-AM can be configured for 4 QAM, 16 QAM, 32 QAM, 64 QAM, 128 QAM, and 256 QAM. Programmable rates of pilots for COFDM like solution at higher frequencies.

NETWORK MANAGEMENT

The DTV Link-AM 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 DTV Link-AM features multilevel configuration permissions and network data encryption. Accounting and logging features provide protection and information about access attempts.



Web-based Interface

APPLICATIONS

- Multiple HD Video
- Multi-hop Systems
- Long Hops
- ASI + IP Traffic

BENEFITS

- Econimical Digital Video STL/TSL
- Optional plug-in sync, async data options
- Selectable Efficiency 4 - 256 QAM
- Programmable speeds 8 Mbps - 155 Mbps
- Degradation free multiple repeaters

OPTION RICH

The DTV Link-AM features many optional enhancements, such as DVB ASI, DVB T2-MI, DVB-S2, DVB-C and ISDBT-International Digital Audio/Digital Video Interfaces, 2xE1/T1 MUX, Ethernet and others, providing a multitude of possibilities to fulfil any broadcast video 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 overcomes multipath and other channel impairments.

INHERENTLY ADAPTIVE

The DTV Link-AM excels in many applications, including Studio-to-Transmitter and Transmitter-to-Studio Links, ENG/Satellite Backhaul, Cable Feeds, and Backbone Networks. Multiple HD-Video stream over a single frequency.

...to deliver such dividends.

DTV Link-AM

SPECIFICATIONS

SYSTEM

FREQUENCY	1.5GHz to 13GHz in Selected Band (fully synthesized) *For all other frequencies, consult factory.*
STEP SIZE	500 kHz
DATA RATES	20 - 155 Mbps
MODULATION	QPSK, 8PSK, 16 QAM, 32 QAM, 64 QAM, 128 QAM, 256 QAM
TEMPERATURE RANGE	Ful Performance: 0^0 to + 50^0
POWER SOURCE	115/230 VAC standard, 80W nominal, (optional 24/48 VDC)
DIAGNOSTICS	Local and remote status and control, Monitoring of BER, RSL, Alarms, and Status via Web Server and SNMP
INTERFACES	8x DVB-ASI/SMPTE-310, 2x E1/T1, 4 GigE Electrical, 1 GigE Fiber
UNFADED BER	1×10^{-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

TRANSMITTER

TYPE	Superheterodyne Conversion
FREQUENCY	1.5GHz to 13GHz 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	500 KHz
OCCUPIED BANDWIDTH	1.25-60 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	1.5GHz to 13GHz in Selected band (fully synthesized) *for other frequencies, consult factory*
RECEIVE SENSITIVITY	-95 dBm (typical, depending on data rate/modulation/FEC) Consult factory for your requirements.
STEP SIZE	500 KHz
CHANNEL BANDWIDTH	6-50 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.

Moseley

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