

# DTV Link-A



## Digital STL/TSL for Video

# Rarely does technology have the power...

The DTV Link-A STL/TSL delivers economical, single or multiple DVB-ASI 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.

## FLEXIBLE MODULARITY

DTV Link-A'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

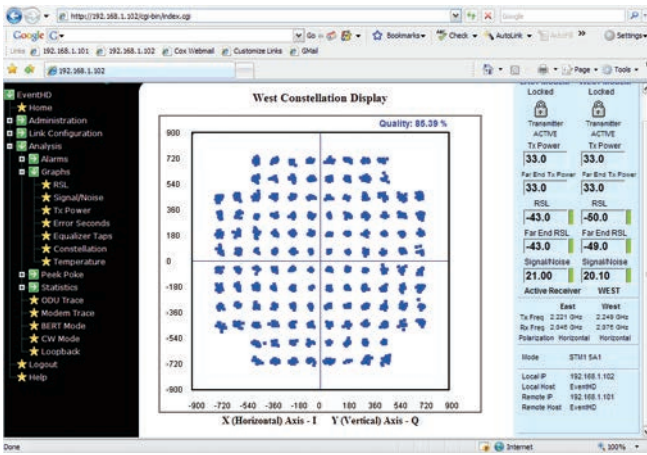
The DTV Link-A can be configured for 4 QAM, 16 QAM, 32 QAM, 64 QAM, 128 QAM, and 256 QAM. Programmable rates of pilots for COFDM like solution at higher frequencies.

## NETWORK MANAGEMENT

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

## FEATURES

- DVB-ASI (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



Web-based Interface

## OPTION RICH

The DTV Link-A 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-A 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.

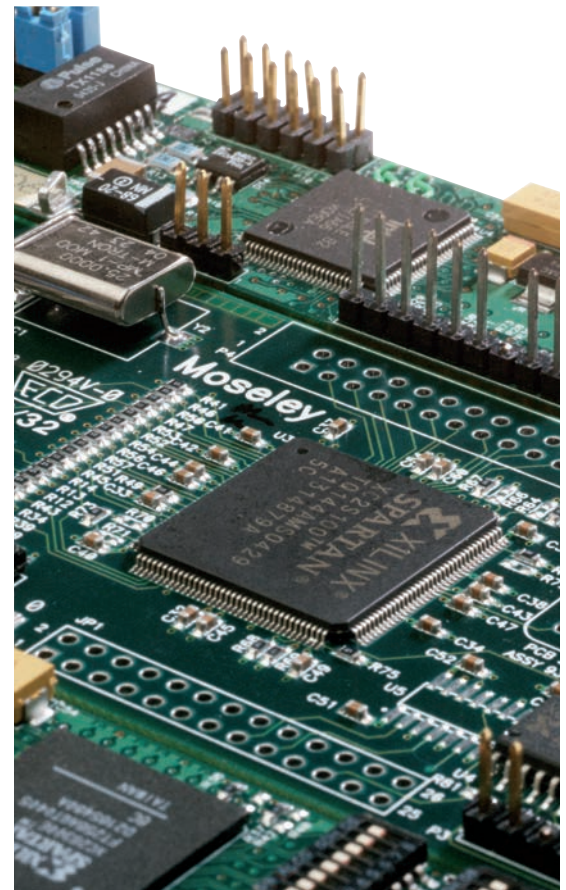
...to deliver such dividends.

## APPLICATIONS

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

## BENEFITS

- Economical 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



### SYSTEM

<b>FREQUENCY</b>	1.5GHz to 13GHz in Selected Band (fully synthesized) <i>For all other frequencies, consult factory.</i>
<b>STEP SIZE</b>	500 kHz
<b>DATA RATES</b>	20 - 155 Mbps
<b>MODULATION</b>	QPSK, 8PSK, 16 QAM, 32 QAM, 64 QAM, 128 QAM, 256 QAM
<b>TEMPERATURE RANGE</b>	Ful Performance: 0° to + 50°
<b>POWER SOURCE</b>	115/230 VAC standard, 80W nominal, (optional 24/48 VDC)
<b>DIAGNOSTICS</b>	Local and remote status and control, Monitoring of BER, RSL, Alarms, and Status via Web Server and SNMP
<b>INTERFACES</b>	8x DVB-ASI, 2x E1/T1, 4 GigE Electrical, 1 GigE Fiber
<b>UNFADED BER</b>	$1 \times 10^{-12}$
<b>ERROR CORRECTION</b>	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
<b>PROTECTION</b>	Space, Frequency, or Cold/Hot Standby
<b>STANDARDS</b>	ETS 300, 385 EMC/EMI and FCC part 74/94/101

### TRANSMITTER

<b>TYPE</b>	Superheterodyne Conversion
<b>FREQUENCY</b>	1.5GHz to 13GHz in Selected band (fully synthesized) <i>for other frequencies, consult factory</i>
<b>POWER OUT</b>	1.5 to 8 GHz: +34 / +37 dBm (Std. / High Power) 9 to 13 GHz: +34 dBm
<b>STEP SIZE</b>	500 KHz
<b>OCCUPIED BANDWIDTH</b>	1.25-60 MHz dependent on operating mode and modem option
<b>MONITORING</b>	Local Web Server with SNMP with Programmable Relays
<b>TUNING RANGE</b>	500 MHz Band dependent on frequency

### RECEIVER

<b>TYPE</b>	Superheterodyne Conversion
<b>FREQUENCY</b>	1.5GHz to 13GHz in Selected band (fully synthesized) <i>for other frequencies, consult factory</i>
<b>RECEIVE SENSITIVITY</b>	-95 dBm (typical, depending on data rate/modulation/FEC) Consult factory for your requirements.
<b>STEP SIZE</b>	500 KHz
<b>CHANNEL BANDWIDTH</b>	6-50 MHz dependent on operating mode and modem option
<b>MONITORING</b>	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.