

The 500FC-DA-HD-L Frame Controller and Distribution Amplifier with Loop Thru module provides a single point of access to communicate with VistaLINK[®] -capable 500 series of modules. The 500FC-DA-HD-L provides a 10Base-T/100 Base-TX Ethernet port and communication is facilitated through the use of Simple Network Management Protocol (SNMP). The 500FC-DA-HD-L handles all SNMP communication between the frame (500FR-L-D) and the network management system (NMS), and servers as a gateway to individual cards in the frame (500FR-L-D frame). The module also provides an RS-232 serial port as the cards edge to set up the network interface.

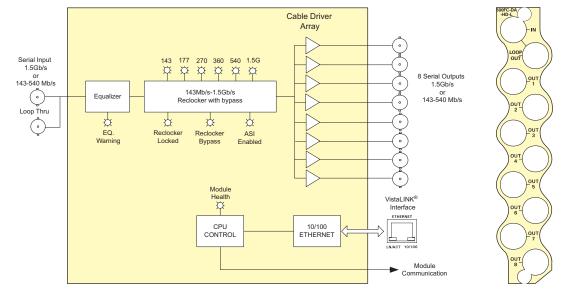
Features & Benefits

- Mode for SMPTE 292M (1.5Gb/s) or SMPTE 259M (143-360Mb/s)
- Fully hot-swappable from front of frame with no BNC disconnect required
 Independent isolated output drivers to ensure no cross channel loading
- effects (i.e. no need to terminate unused outputs)

 Module health and Status LEDs
- Carrier Present LEDs for each DA channel
- Tally output on Frame Status bus upon loss of input signal
- Complies with IEEE 802.3 100Base-TX and 10Base-T Ethernet standards

In addition to the 500FC-DA-HD-L provides an on-board reclocking distribution amplifier for HD/SD-SDI video signals are rates of 1.5Gb/s and 143Mb/s to 540Mb/s. The distribution amplifier features an auto-equalizing input with eight reclocked outputs and a single passive loop thru. It has been designed for use as a SMPTE 292M (1.5 Gb/s), DVB-ASI or SMPTE 259M distribution product.

- 100Mb/s Fast Ethernet or 10Mb/s Ethernet data transfer, selected by autonegotiation
- · Full duplex or half-duplex operation, selected by auto negotiation
- RJ-45 connector for network cable connection
- Card edge RS-232 serial control port for configuration
- Rear panel LEDs indicate Ethernet link, activity and speed
- Provides frame/chassis status information through enabled hardware via
- VistaLINK $^{\otimes}$ including frame status, card insertion/removal counters, and 500FC-DA-HD-L software version number



▶Specifications

Return Loss:

Wide Band Jitter:

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Serial Video Inputs:		Ethernet:		Electrical:	
Standards:	SMPTE 292M, SMPTE 259M-A, B, C,	Network Type:	Fast Ethernet 100 Base-TX IEEE	Voltage:	+12V DC
	D (143 to 540Mb/s) or DVB-ASI		802.3u standard for 100Mb/s	Power:	5.5W
Connector:	1 BNC per IEC 61169-8 Annex A		baseband CSMA/CD local area	EMI/RFI:	Complies with FCC Part 15 Class A
Equalization:	Automatic to100m @ 1.5Gb/s		network Ethernet 10 Base-T IEEE		and EU EMC directive
Return Loss:	>15dB up to 1.0Gb/s		802.3 standard for 10Mb/s baseband		
	>10dB up to 1.5Gb/s		CSMA/CD local area network	Physical:	
		Connector:	RJ-45	Number of slots:	1
Serial Video Ou	tputs:				
Number of Outputs: 8 (Optionally reclocked)		Serial Communications:			
Connector:	BNC per IEC 61169-8 Annex A	Standard:	RS-232		
Signal Level:	800mV nominal	Connector:	9-Pin Female D connector on		
DC Offset:	0V ±0.5V		upgrade breakout cable (provided		
Rise and Fall Time: 200ps nominal			with 500FR)		
Overshoot:	< 10% of amplitude	Baud Rate:	57,600		

control

Format:

Ordering Information

> 15dB up to 1.0Gb/s

> 12dB up to 1.5Gb/s

< 0.2 UI

everlz

The Complete Solution Provider

500FC-DA-HD-L VistaLINK[®] Frame Controller and HD/SD-SDI Reclocking Distribution Amplifier with Loop Thru Enclosures 500FR-L-D

8 bits, no parity, 2 stop bits, no flow

exponent Compact High Density Distribution Frame with loop (digital) A