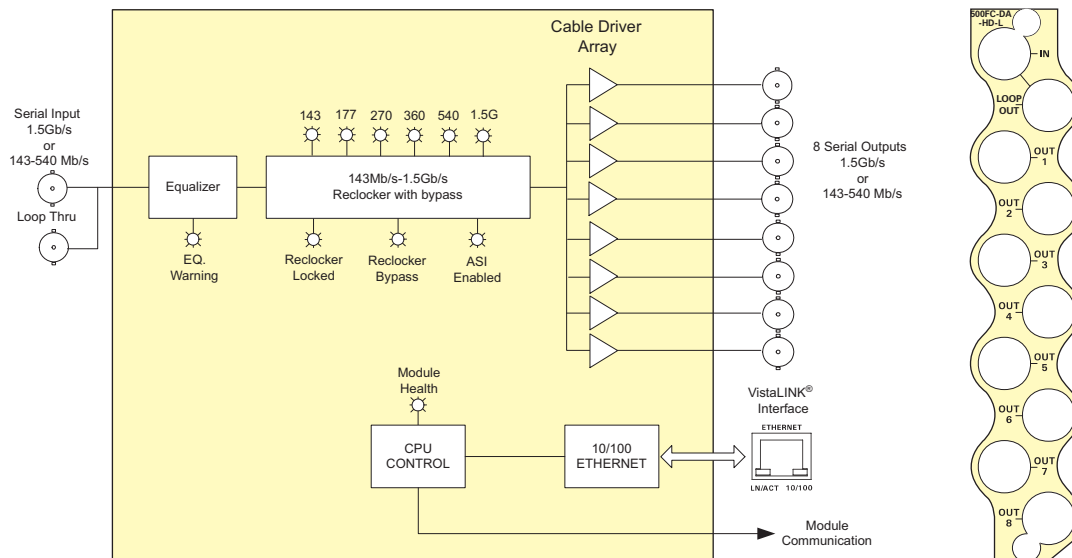# 500FC-DA-HD-L
VistaLINK® Frame Controller with HD/SD-SDI DA with Loop Thru

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.

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.

▶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

- 100Mb/s Fast Ethernet or 10Mb/s Ethernet data transfer, selected by auto-negotiation
- 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® including frame status, card insertion/removal counters, and 500FC-DA-HD-L software version number

▶Specifications

Serial Video Inputs:
Standards:	SMPTE 292M, SMPTE 259M-A, B, C, D (143 to 540Mb/s) or DVB-ASI
Connector:	1 BNC per IEC 61169-8 Annex A
Equalization:	Automatic to100m @ 1.5Gb/s
Return Loss:	>15dB up to 1.0Gb/s
	>10dB up to 1.5Gb/s

Serial Video Outputs:
Number of Outputs:	8 (Optionally reclocked)
Connector:	BNC per IEC 61169-8 Annex A
Signal Level:	800mV nominal
DC Offset:	0V ±0.5V
Rise and Fall Time:	200ps nominal
Overshoot:	< 10% of amplitude
Return Loss:	> 15dB up to 1.0Gb/s
	> 12dB up to 1.5Gb/s
Wide Band Jitter:	< 0.2 UI

Ethernet:
Network Type:	Fast Ethernet 100 Base-TX IEEE 802.3u standard for 100 Mb/s baseband CSMA/CD local area network Ethernet 10 Base-T IEEE 802.3 standard for 10 Mb/s baseband CSMA/CD local area network
Connector:	RJ-45

Serial Communications:
Standard:	RS-232
Connector:	9-Pin Female D connector on upgrade breakout cable (provided with 500FR)
Baud Rate:	57,600
Format:	8 bits, no parity, 2 stop bits, no flow control

Electrical:
Voltage:	+12V DC
Power:	5.5W
EMI/RFI:	Complies with FCC Part 15 Class A and EU EMC directive

Physical:
Number of slots:	1

▶Ordering Information

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

Enclosures	*exponent*
500FR-L-D	Compact High Density Distribution Frame with loop (digital)

Accessories	*exponent*
+5PS	Redundant power supply option for 500FR

evertz