Specifications

SDI Input:	SMPTE 424M, 292, 259M 2970, 1485/1483, 540, 360, 270, 177, 143 Mb/s
Input Return Loss	> 10 dB at 3 GHz > 12 dB at 1.5 GHz
Operating Temperature Range	40-100 degrees F.
Output Return loss Output Jitter (Bars input)	> 11 dB at 3 GHz HD: < 0.2 UI SD: < 0.1 UI
Operating Temperature Range	40 -110 degrees F (5-43C)
Humidity	(non-condensing)
Power Input	+5-18 VDC < 2W
Size	BNC-BNC 6”x3”x1” (153x76x25mm)

This product is not authorized for use in life support systems. Product liability limited only to the replacement of this unit. Cobalt Digital Inc. does not assume any liability for loss of use due to failure of this component.

Specifications subject to change without notice.

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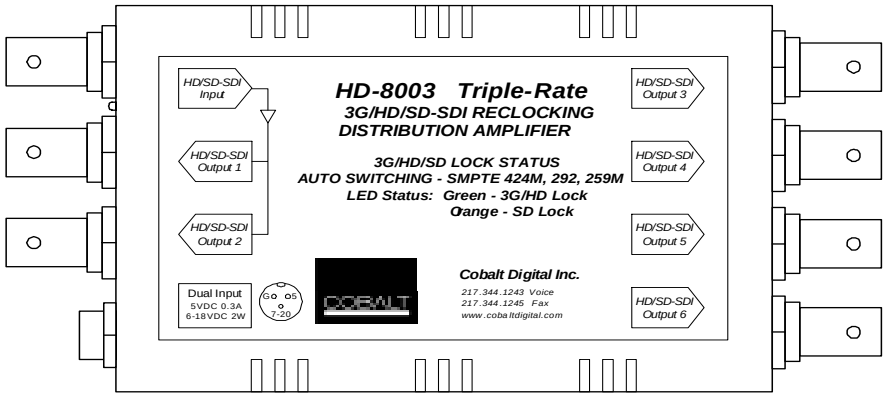
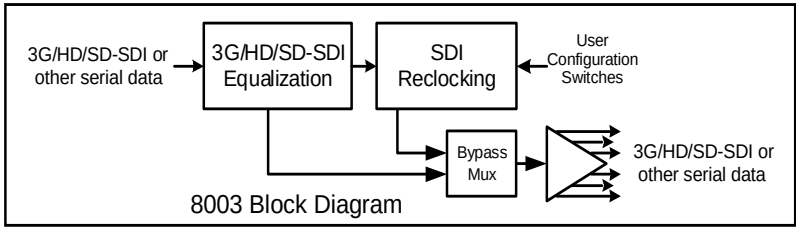
Model 8003
3G/HD/SD-SDI Reclocking Distribution Amplifier With 3G/HD/SD Lock Status



Owner’s Manual

The COBALT 8003 is a high-quality six output 3G/HD/SD-SDI distribution amplifier. The 8003 will automatically detect and reclock data at 2970, 1485, 1483, 540, 360, 270, 177, and 143 Mb/s. The 8003 outputs will mute when no input is detected. The device can be powered from an external supply of 5 VDC to 18 VDC.

Block Diagram



8003 Block Diagram

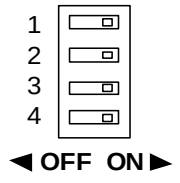
Features

The 8003 can be operated in automatic standard detect mode or in a manual standard mode. The user can bypass the reclocking circuitry if desired. The device can reclock and distribute ASI data on 3 of its 6 output ports.

Led Indicator

The front panel LED indicates video lock. When a 3G or HD rate signal is locked it will light green, when an SD rate signal is locked it will light orange. If no signal is locked it will flash continuously.

Switch Settings



8003 SWITCH SETTINGS

S1 Reclocking Bypass	On = Bypass On Off = Bypass Off
S2 S3	Force Reclocking Rates
Off Off	Auto Detect
Off On	270 Mb/s
On Off	1483/1485Mbps 2967/2970Mbps
S4 Mute on input loss	On = Mute On Off = Mute Off

S1 – Bypasses the reclocker. ON for Bypass. OFF for reclocking.
S2, S3 – Forces a reclocking rate. See table for settings
S4 – Mute control. ON to mute output when input absent. OFF to unmute output when input is absent.

* Outputs 2, 3, and 6 are inverting. Therefore ASI is only available from outputs 1,4, and 5