



HELIOS

Multi-Channel ARINC 818 Converter System

Convert up to 12 channels of ARINC 818 to/from HDMI in a 1U 19-inch mountable rack system. HDMI outputs can also select one of several ARINC 818 inputs, simplifying a connection to a HDMI recorder. ARINC 818 to HDMI conversion provides a way to view live ARINC 818 video on common HDMI monitors. Optional broadcast mode available.

APPLICATIONS:

- Pilot Training Simulators
- Cockpit Development
- Flight Test Recording of ARINC 818 (requires additional equipment)
- Factory Test of ARINC 818 Equipment

LINK RATES: (Gbps)

- 1.0625 ■ 2.125 ■ 3.1875 ■ 4.25
- 5.0 ■ 6.375 ■ 8.5

PIXEL TYPES:

- Monochrome 8-bit
- Monochrome 16-bit
- Color RGB 8:8:8
- Color RGB 5:6:5

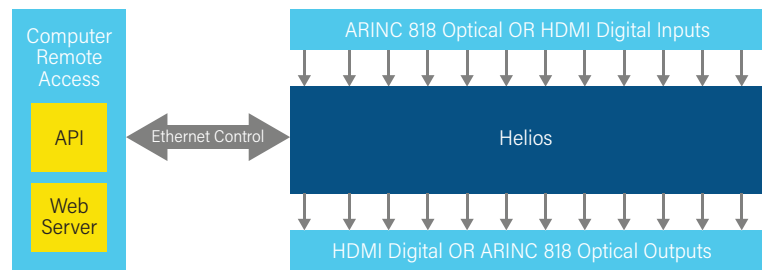
CONFIGURATION OPTIONS:

- XGA 1024x768 @ 60Hz
- SXGA 1280x1024 @ 60Hz
- SXGA+ 1400x1050 @ 60Hz
- WXGA 1440x900 @ 60Hz
- UXGA 1600x1200 @ 60Hz
- HD+ 1920x1080 @ 60Hz / 30 Hz
- 4K 3840x2160 @ 30Hz

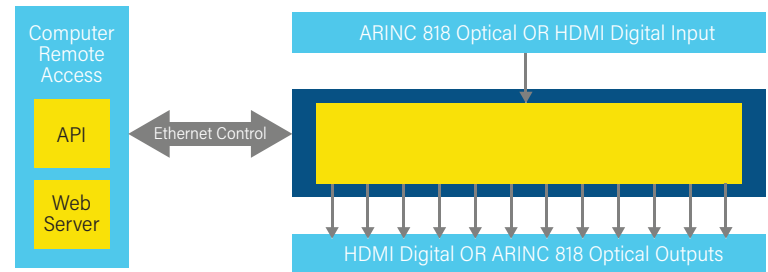
Contact us for other HDMI format options!



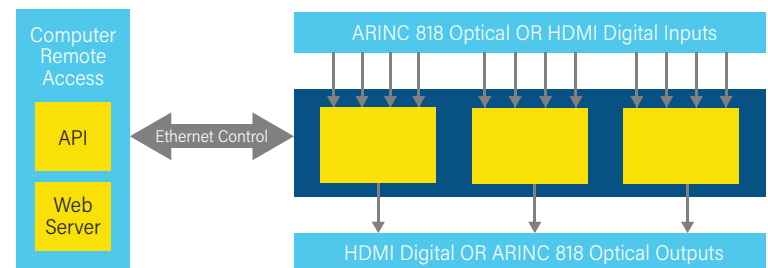
AS AN ARINC 818 TO/FROM HDMI 4, 8, OR 12 CHANNEL CONVERTER:



AS A 1-TO-12 ARINC 818 SELECTION TO/FROM HDMI CONVERTER (BROADCAST MODE):



AS A 4-TO-1 ARINC 818 SELECTION TO/FROM HDMI CONVERTER:



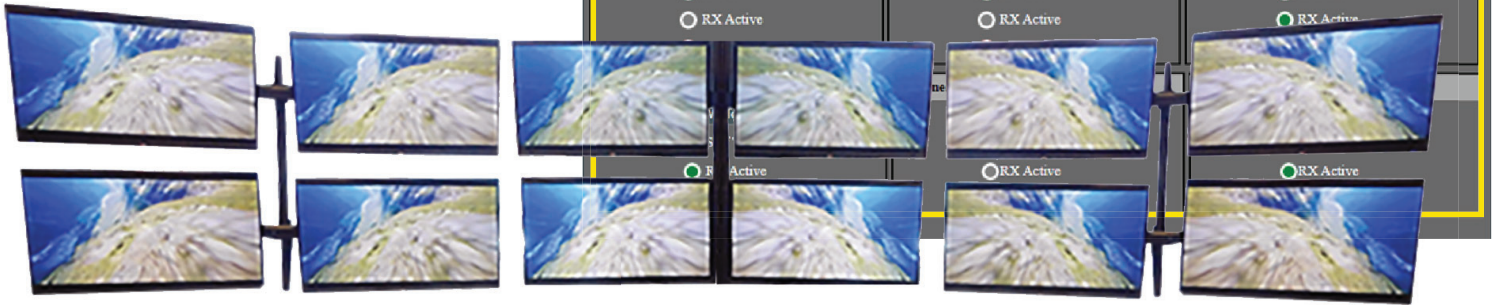
FEATURES:

- Modular factory configuration for 4, 8, or 12 channels
- Extreme Customization (some examples on right)
- HDMI connectors (6 locking / 6 standard)
- SFP Optical with LC Connectors
- 19 inch 1U rack mount, 15 inch deep
- 100 - 240 VAC (28 VDC Option)
- Broadcast Mode availability
- Control Test Pattern Outputs
- Remote Based Controls (LAN) with C API or Web Interface
 - Query Status
 - Real-Time Object 0 Update
 - Control Test Pattern Outputs

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HELIOS WEB INTERFACE:

- 1 The **Overview Tab** gives the user a look at flow direction, **Self-Test** status, **RX Signal** status, and an indication for **Format Errors** for each individual channel.
- 2 The **Status Tab** displays detailed information about each channel one at a time. The user is able to toggle between any channel they wish to view.
- 3 The **Control Tab** provides the user access to extensive channel functionality such as **Channel Overlay**, **Test Pattern Output**, **Read and Write Registers**, and the ability to **Run a Built In Self Test**.



SPECIFICATIONS:

Operating System	Windows 7, 8, 10, & 11, 64-bit	Connections: <ul style="list-style-type: none"> ■ 1x Ethernet ■ 1x C14 Power Plug ■ 12x HDMI ■ 12x SFP
Power Requirement	100-240 V AC 50-60 Hz (28 VDC Option)	
Operating Temperature	10 to 50°C (50 to 122°F)	
Weight	12.2 lbs	
Physical Dimensions	19" x 15" x 1.75"	

HOW TO BUY:

Determine your part number for Helios (HE-A8) as follows:

HE-A8- **1** - **2** - **3** - **4** - **5** -

For Example:

HE-A8-FD-08-4X-08-XXXX



Video Port 1
FD = ARINC 818 to HDMI
DF = HDMI to ARINC 818
MM = Mixed Mode

Interface 2
03 = 1310nm Optical
08 = 850nm Optical

Link Rate (Gbps) 3
1X = 1.0625 8X = 8.5
2X = 2.125 MM = Multiple Rates
3X = 3.1875
4X = 4.250
6X = 6.375

Channels 4
04 = 4 Channel
08 = 8 Channel
12 = 12 Channel

Custom Characters 5
Assigned by GRT