



AVI – Optimize your sensor



3-G SDI 1X4 Video Splitter

Overview

The AVI 3-G SDI 1X4 Video Splitter is a rugged, stand-alone distribution unit that supports one SDI video input and four SDI video outputs.

The unit automatically synchronizes to SD, HD, or 3-G SDI video inputs and outputs up to four channels based on the input video standard. Low latency buffering provides sub-frame latency (less than 0.4 msec) on output channels.

The unit dynamically adjusts to different SDI input standards without the need to cycle power, making the unit ideal for distribution of switched or changing SDI video sources.

Stand-alone or in combination with various AVI system components, AVI's rugged 3-G SDI 1X4 splitter offers a high performance solution for distribution of SDI video sources, maximizing the capability of the sensor suite in use.



Standard Features

- 1 input and up to 4 outputs
- 3G/HD/SD SDI capable
- Inputs auto detected
- Re-clocked outputs
- Input status indicator with format indicator
- 9 – 36 V DC Power
- Standard three-year warranty

Benefits

- Plug and play
- Re-clocked and reliable duplication and routing of SDI Video
- Small, rugged, lightweight solution to SDI signal routing
- Visual indication of SDI signal health
- Open - works with any SDI source or display

Typical Applications

- Surveillance systems
- Airborne Law Enforcement sensor systems
- Customs and Border Protection sensor systems
- Naval and Coastguard ship's sensor and mission systems
- Naval, Air Force, and Coastguard rotary and fixed wing mission systems
- Ground Vehicle sensor mission systems
- Aerial News Broadcast systems



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3-G SDI 1X4 Video Splitter - Specifications

Video Inputs	<ul style="list-style-type: none"> • 3G/HD/SD (1) • Input equalization > 100m (Belden 1694A) • Connector type – BNC 75 Ω 	Functionality	<ul style="list-style-type: none"> • Input status signal lock • Plug and play – no setup required
Video Outputs	<ul style="list-style-type: none"> • 3G/HD/SD (4) <ul style="list-style-type: none"> ○ Re-clocked ○ 10 bit ○ Connector type – BNC 75 Ω 	Model Numbers	<ul style="list-style-type: none"> • S050201-00 – One channel unit • S050202-00 – Two channel unit
Video Input and Output Formats	<ul style="list-style-type: none"> • 3G – SMPTE 425M <ul style="list-style-type: none"> ○ 2.97 and 2.967Gb/s ○ 2048x1080p@30/39.97/25/24/23.98 ○ 1920x1080p@60/59.94/50Hz ○ Format SMPT 425M Level A, 425M • HD – SMPTE 292M/274M/296M <ul style="list-style-type: none"> ○ 1.485 and 1.435Gb/s ○ 1080i@60/59.94/50Hz ○ 1080p@30/29.97/25/24/23.98Hz ○ 720p @60/59.94/50/30/29.97/25/24/23.98Hz • SD – SMPTE 259M <ul style="list-style-type: none"> ○ 270Mb/s ○ 625i@50Hz ○ 525i@59.94Hz 	Environmental	<ul style="list-style-type: none"> • Operating Temp Low -45°C DO-160G Cat B2 • Operating Temp High +70°C DO-160G Cat B2 • Short Term Op Temp Low -45°C DO-160G Cat B4 • Short Term Op Temp High +70°C DO-160G Cat B4 • Ground Survival Low Temp -55°C DO-160G Cat B4 • Ground Survival High Temp +85°C DO-160G Cat B4 • Temp Variation 5C° per minute DO-160G Cat B • Humidity 0 to 95±4% @ 50C° DO-160G Cat A • Operational Shock & Crash 6g @ 20ms, 20g DO-160G Cat B • Vibration Random, 10-2000Hz DO-160G Cat U2 • Explosion Proofness* MIL-STD-810G Method 511.6 • Waterproofness Drip Test DO-160G Cat Y • Magnetic Effect DO-160G Cat A • Power Input* DO-160G Cat A • Voltage Spike 2x Line Voltage DO-160G Cat B • EMI/EMC Sec 18, 19, 20, 21 DO-160G Cat B, CC, R, M • ESD* DO-160G Cat A <p>DO-160 Tested *By Similarity</p>
Power	<ul style="list-style-type: none"> • +9 to +36 DC • 0.05 amps @ 28V DC (single channel) • 0.08 amps @ 28V DC (dual channel) • Connector Type MIL-STD D38999/20MB98PN 	Dimensions and Weight	<ul style="list-style-type: none"> • 166 mm [6.53 in] W, 108 mm [4.3 in] D, 38.8 mm [1.53 in] H (1 ch) • 166 mm [6.53 in] W, 108 mm [4.3 in] D, 52.8 mm [2.08 in] H (2 ch) • 0.499 kg [1.1 lb] • 0.801 kg [1.8 lb]

