

VETRO-CONV-HDMI-SDI

Rugged HDMI/DVI to SDI video converter

The VETRO-CONV-HDMI-SDI is part of AMP's rugged intelligent video converter family designed for vehicle and mobile applications. The VETRO-CONV-HDMI-SDI seamlessly converts high definition HDMI/DVI to standard compliant SDI video ensuring reliable performance for Military, Communications, Transportation, and Energy industries.



This VETRO-CONV family are ideal for a wide range of critical requirements, including the integration of new sensors onto existing platforms, vehicle or platform upgrade and retrofit projects, and expanding the operational lifespan of legacy systems. It provides the seamless, automatic video conversion necessary for enabling these mission-critical tasks.

The VETRO-CONV-HDMI-SDI features D38999 connectors and is vehicle-ready with no user intervention. Built tough with conduction-cooled, watertight, IP67-rated enclosure and integrated MIL-STD-1275E power conditioning, the VETRO-CONV-HDMI-SDI delivers power-transient hardened operation for dependable performance in harsh environments.

Key Features

- ◆ Vehicle ready, rugged video converter
- ◆ HDMI / DVI video input
- ◆ SMPTE compliant SDI output
- ◆ Military grade, rugged IP67 enclosure
- ◆ Sealed, MIL-D38999 connectors for secure cabling
- ◆ Power transient hardened
- ◆ Designed for demanding applications in harsh environments

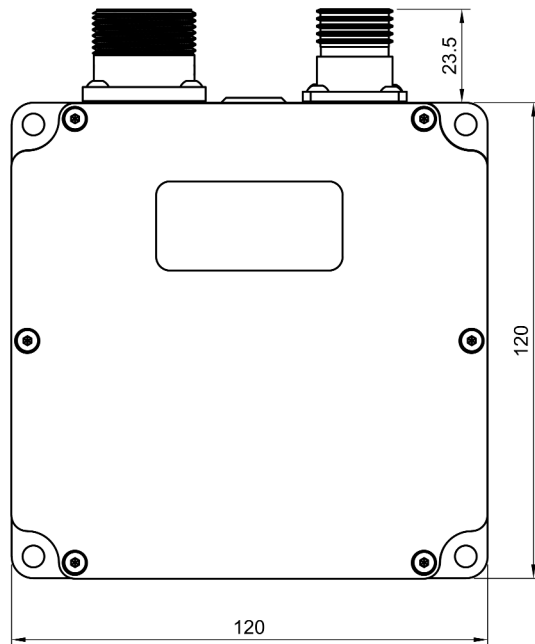
VETRO

The VETRO-CONV rugged video converters are part of AMP's VETRO range of MIL-rated vetronics solutions ready for rapid deployment in the demanding environments.

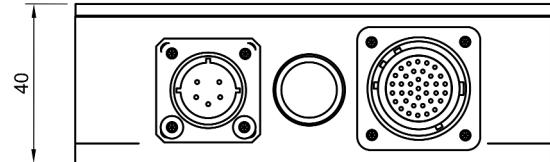
Housed in IP67 enclosures, using MIL-D38999 connectors and with MIL-1275E power conditioning, VETRO products are designed for durability, ease of integration, and mission critical reliability.



Mechanical Drawing



3D Drawing available on request



Example Applications

The VETRO-CONV-HDMI-SDI is ready for rapid deployment in demanding environments, ideal for applications such as:

- ◆ Integration of new sensors
- ◆ Situational awareness
- ◆ Lifespan extension projects
- ◆ Vehicle surveillance systems
- ◆ Platform Upgrades and Retrofit
- ◆ Security systems for critical infrastructure
- ◆ Mobile command centres

VETRO-CONV

The VETRO-CONV converters support a comprehensive range of video interfaces, including:

- ◆ GMSL ◆ RS-170 ◆ NTSC
- ◆ PAL ◆ Composite Video
- ◆ DisplayPort ◆ VGA
- ◆ HD-SDI ◆ HDMI ◆ DVI

Contact us to find the vehicle ready VETRO-CONV ideal for your project.



Technical Specification

Digital Video Input

HDMI/DVI at up to 1080p60

Video Output

SMPTE compliant SDI output
SMPTE 259M standard definition (NTSC and PAL)
SMPTE 292M HD-SDI High definition (up to 1080p30)
SMPTE 424M 3G-SDI (up to 1080p60)
75 Ohm output

Video Conversion

Intelligent solution - no configuration required.

Latency

Latency < 1 frame time
Zero buffer process
No video data persistence

Environmental

Operating temp -20°C to +60°C
IP67 dust-proof, water immersion to 1m
Passively cooled, fanless enclosure

Power

12-31V DC Input range
28V DC Nominal input voltage
Hardened against power transients
Reverse polarity protection
EMI hardened for immunity and emissions
Military vehicle class power conditioning conforming to MIL-STD-1275E

Mechanical

Milled from solid Aluminium Alloy block
Size: 120 x 120 x 40 mm (4.7 x 4.7 x 1.6 inch) LWH
Sealed IP67 rugged MIL-D38999 Connectors

Standards Compliance

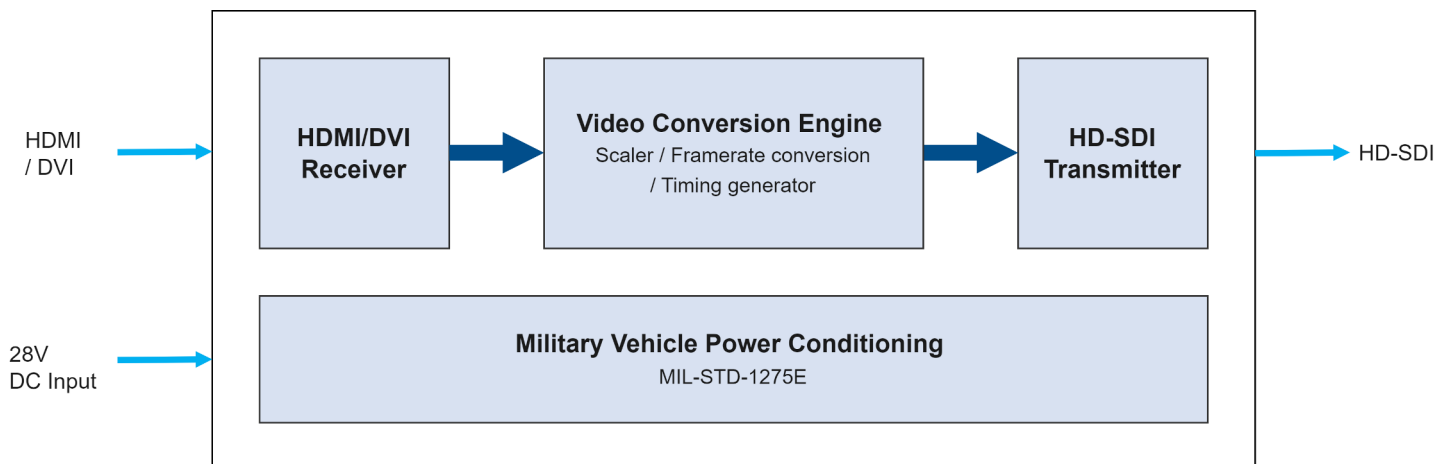
MIL-STD-1275E⁽¹⁾

Ordering Information

VETRO-CONV-HDMI-SDI

Vehicle ready rugged video converter. HDMI-to-SDI

Functional Diagram



⁽¹⁾ The AMP VETRO-CONV family is designed to meet MIL-STD-1275E requirements.

