

VETRO-CONV-GMSL-RS170

Rugged GMSL to RS-170 video converter

The VETRO-CONV-GMSL-RS170 is part of AMP's rugged intelligent video converter family designed for vehicle and mobile applications. The VETRO-CONV-GMSL-RS170 seamlessly converts GMSL video signals to standard compliant RS-170 composite 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-GMSL-RS170 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-GMSL-RS170 delivers power-transient hardened operation for dependable performance in harsh environments.

Key Features

- ◆ Vehicle ready, rugged video converter
- ◆ GMSL STP or Coax Input
- ◆ RS170 composite video 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.

Rev A.01

Preliminary Information. Subject to change without notification

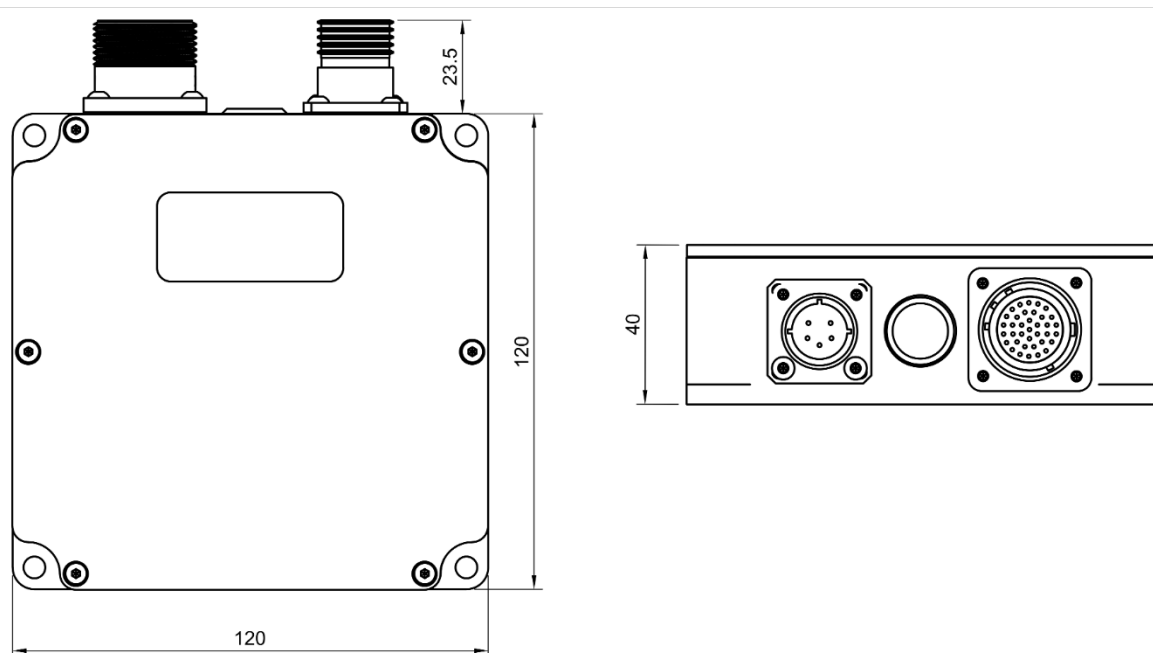


**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS



Mechanical Drawing



3D Drawing available on request

Example Applications

The VETRO-CONV-GMSL-RS170 is ready for rapid deployment in demanding environments. Ideal for applications such as:

- ◆ Integration of new sensors
- ◆ Situational awareness
- ◆ Lifespan expansion 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
- ◆ Display Port ◆ VGA
- ◆ HD-SDI ◆ HDMI ◆ DVI

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





Technical Specification

Digital Video Input

GMSL Shielded Twisted Pair (STP) input
GMSL Coax input (option)
Standard compliant GMSL Deserializer

Analog Video Output

RS-170 composite video out
Ground Loop Mitigation
75 Ohm output impedance

Video Conversion

Intelligent solution - no configuration required.
GMSL at up to 1280x800 p30 to composite RS-170

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
Vehicle load dump protection
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

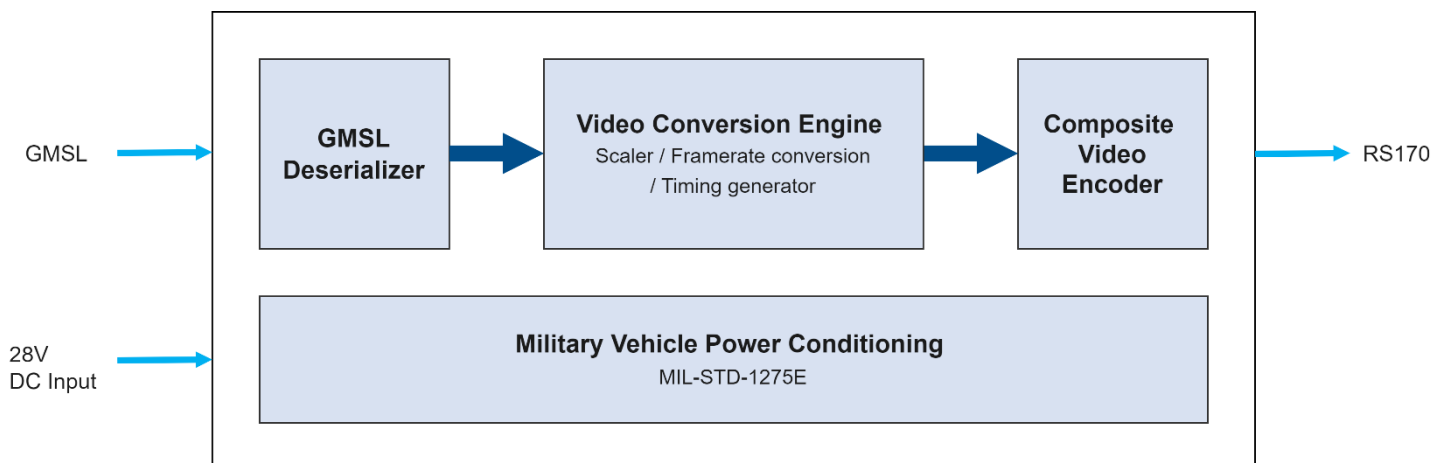
MIL-STD-1275E⁽¹⁾
MIL-STD-810G⁽¹⁾
MIL-STD-461⁽¹⁾

Ordering Information

VETRO-CONV-GMSL-RS170

Vehicle ready rugged video converter. GMSL-to-RS170

Functional Diagram



(1) The AMP VETRO-CONV family is designed to meet or exceed the requirements of MIL-STD-461, MIL-STD-810G, MIL-STD-1275E

