



MC-VCM

Flyable Multichannel Video Converter Module for ARINC 818

The MC-VCM is a flyable building block for mission systems. Connect sensors, cameras, displays, and HUDs. Extend the life of airborne video components by quickly linking them to ARINC 818 architecture.

The MC-VCM increases the switching or conversion capacity of our original single-channel VCM and can be certified to DO-254.

Formats

Each MC-VCM is factory configured for one of the following:

- Four-channel conversion: ARINC 818 to or from other protocols (DVI, VGA, Ethernet, HD-SDI, NTSC/PAL, or STANAG 3350)
- Up to 8-channel (8 in/8 out) ARINC 818 cross-point switching with options for 12x12

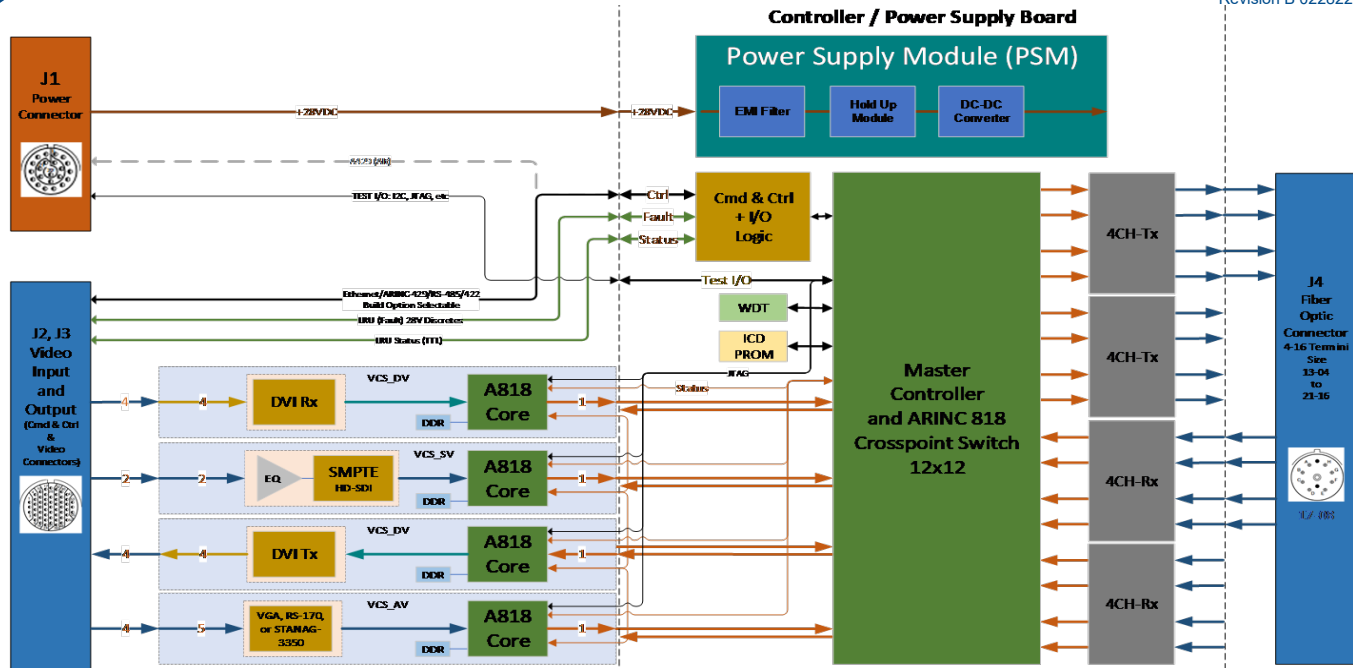
To discuss conversions from other protocols to or from ARINC 818, call.

Features

- 4 channel video conversion to/from ARINC 818 and/or ARINC 818 to ARINC 818 switch (8x8)
- ARINC 818 interface over 850nm fiber
- Multi-ICD capabilities
- Link rates up to 8.5 Gb/s
 - Supports mixed link rates on different channels
- 28 VDC power input per MIL-STD-704F and RTCA DO-160G
- HIRF protected, EMI shielded design
- Command and control options via Ethernet, ARINC 429, and RS-485/422 interface
- Power: 38-48 watt converter for 4 channels (22 watt switch only)
 - 50ms power hold up
- Weight: less than 3.5 pounds
- Conduction and fan cooled options
- Stale video monitoring and reporting
- SEU monitoring and recovery
- Dimensions: 8.0"x6.9"x2.4"

The MC-VCM can operate in rugged environments, such as those encountered in turbo-props and helicopters. See reverse for the specifics.





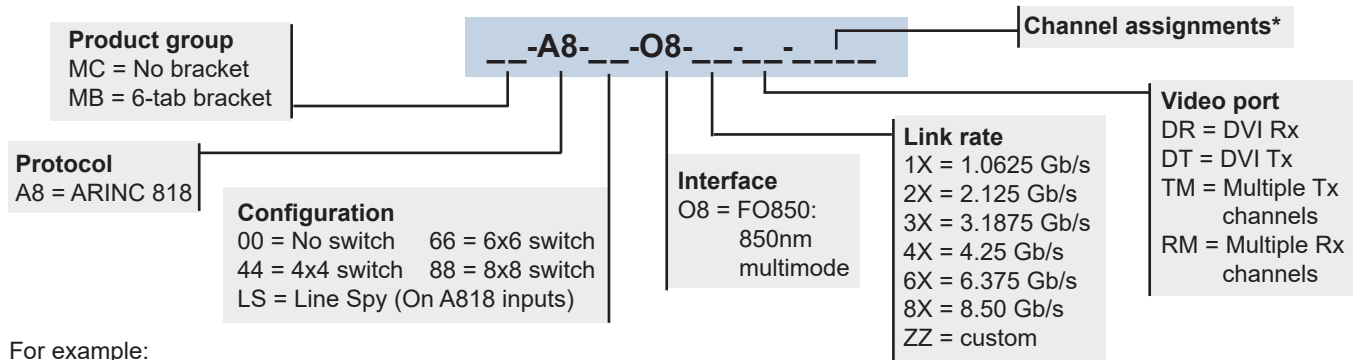
Call for a discussion of your precise conversion/switching requirements.

Environmental conditions, DO-160G (subject to change)

Sec. 4: Temp and Altitude Overpressure A2	Sec. 15: Magnetic Effect Z
Sec. 5: Temperature Variation B	Sec. 16: Power Input B (50 ms)
Sec. 6: Humidity A	Sec. 17: Voltage Spike A
Sec. 7: Shock and Crash Safety B	Sec. 18: AF Conducted Susceptibility B
Sec. 8: Vibrations B/B1	Sec. 19: Induced Signal Susceptibility ZC
Sec. 9: Explosion Proofness H	Sec. 20: RF Radiated and Conducted Susceptibility R
Sec. 10: Water Proofness Y	Sec. 21: RF Radiated and Conducted Emissions M
Sec. 11: Fluids Susceptibility, Cleaning Fluids: F	Sec. 22: Lightning Induced Transient A2J2M2 (shielded)
Sec. 12: Sand and Dust D	Sec. 24: Icing A
Sec. 13: Fungus Resistance, Analysis F	Sec. 25: ESD Susceptibility A (equipment off)
Sec. 14: Salt Spray Testing, Analysis S	Sec. 26: Fire, Flammability C

How to buy

Determine your part number* for MC-VCM as follows:



For example:

MB-A8-44-08-2X-DR-DDDD or MBA844O82XDRDDDD

To order, consult our [Distributors](https://www.greatrivertech.com/sales) page: (<https://www.greatrivertech.com/sales>). If no distributor is listed for your region or country or if you need additional information about our custom firmware, contact our headquarters in Albuquerque.

*Each character represents a channel: D = DVI; E = Ethernet; H = HD-SDI; N = NTSC; P = PAL; S = STANAG 3350. For example, two channels of NTSC and two channels of STANAG 3350 = NNSS.