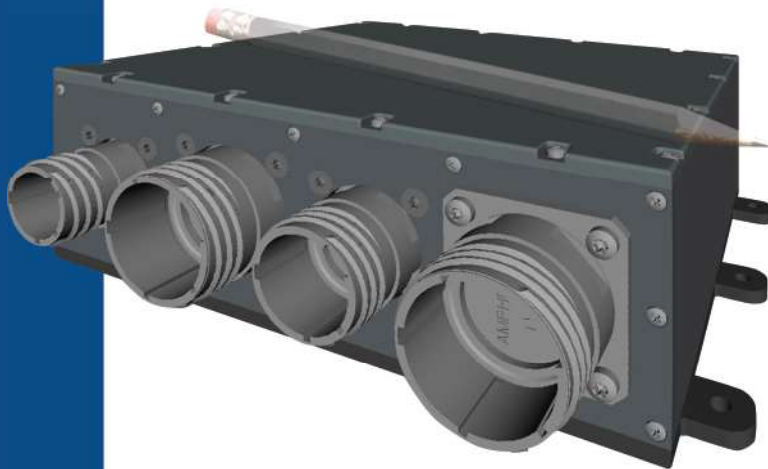




## MC-VCM

### Flyable Multichannel Video Converter Module for ARINC 818

The MC-VCM is a flyable building block for mission systems. Incorporate 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.

All MC-VCMs are flyable, rugged versions of GRT's Stand Alone Module, which has proven itself for years in labs and simulator settings and aircraft production facilities.

### Features

- 28 VDC power input per MIL-STD-704F and RTCA DO-160G
- HIRF protected, EMI shielded design
- ARINC 818 interface over 850nm fiber
- Command and control via ARINC 429 interface
- Multi-ICD capabilities
- Test and maintenance interface
- Link rates up to 6.375 Gb/s (ask about the status of link rates up to 8.5 Gb/s)
- Power: 20 watts typical
- 50ms power hold up
- Conduction cooled
- Stale video monitoring and reporting
- SEU monitoring and recovery

### Formats

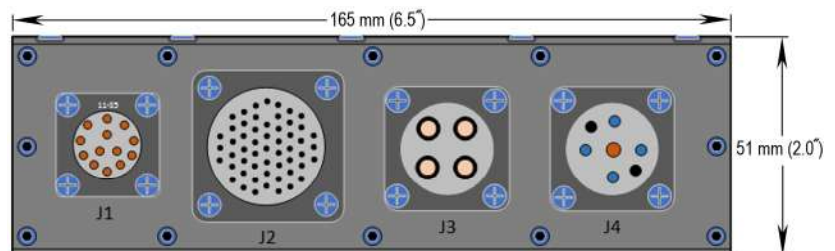
Each MC-VCM is factory configured for one of the following:

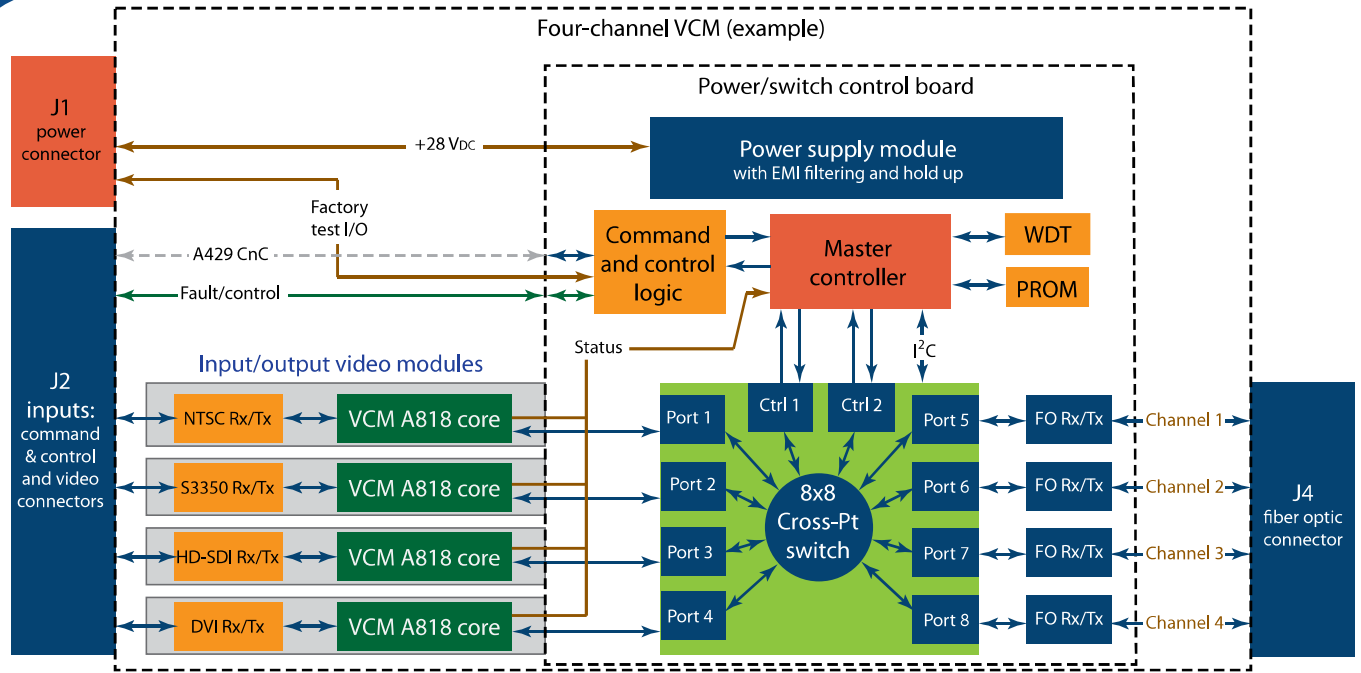
- Four-channel conversion: ARINC 818 to or from other protocols (DVI, VGA, Ethernet, HD-SDI, NTSC/PAL, or STANAG 3350)
- Up to 8-channel ARINC 818 cross-point switching

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

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

**The MC-VCM weighs less than 0.9 kg (2 pounds) and is 133 mm (5.24 inches) deep. Including connectors and mounting brackets, its width and depth are 193 mm (7.6 inches) by 150 mm (5.9 inches).**





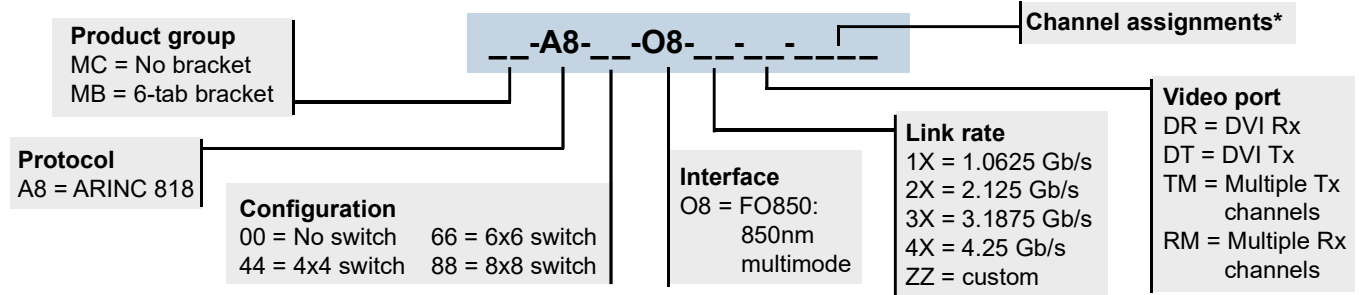
Call for a discussion of your precise conversion/switching requirements.

**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-O8-2X-DR-DDDD or MBA844O82XDRDDDD**

To order, consult our [Distributors](https://www.greatrivertech.com/distributors.html) page: (https://www.greatrivertech.com/distributors.html). 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; S = STANAG 3350. For example, two channels of NTSC and two channels of STANAG 3350 = NNSS.