

MC-VCM

Flyable ARINC 818 Multichannel Video Converter Module

Extend the life of airborne video components by quickly linking them to ARINC 818 architecture. Connect sensors, cameras, and displays. The MC-VCM increases the switching or converting capacity of the original single-channel VCM and can be certified to DO-254.



FEATURES:

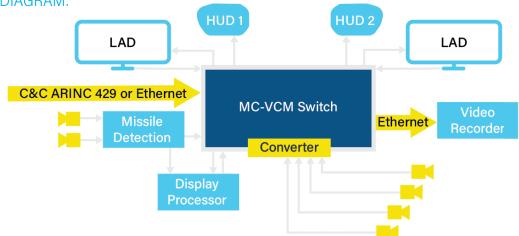
- Up to 6 channel video conversion to/from ARINC 818 and/or ARINC 818 to ARINC 818 (8x8 switch)
- Multi-ICD capabilities
- Supports mixed link rates on different channels
- 28 VDC power input per MIL-STD-704F and RTCA DO-160F hardware qualification

- HIRF protected, EMI shielded design
- Command and Control options via Ethernet. ARINC 429, and RS-485/422 interface
- Conduction cooled
- Stale video monitoring and reporting
- SEU monitoring and recovery

EXAMPLE AVIONICS SYSTEM BLOCK DIAGRAM:

The MC-VCM enables the connection of older cameras and sensors, together with newer, high-resolution large area displays (LADs), HUDs and EO/IR sensors.

Video COAX is support is available through a 38999 connector with coax inserts, or via individual DIN 1.0/2.3 coax.



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SPECIFICATIONS:

Power Requirement	18W - 40W, configuration dependent	Connectors	Custom
Operating Temperature	-40 to 55°C (-40 to 131°F)	Form Factor	Custom
Weight (4-tab)	~ 3.75 lbs	Fiber	850nm, multimode
Physical Dimensions	8.0" x 6.9" x 2.4"	Standards	ARINC 818

ENVIRONMENTAL CONDITIONS (DO-160G, SUBJECT TO CHANGE):

Sec. 4: Temperature and Altitude Overpressure	A1
Sec. 5: Temperature Variation	В
Sec. 6: Humidity	Α
Sec. 7: Shock and Crash Safety	В
Sec. 8: Vibrations	R/C/C1
Sec. 9: Explosion Proofness	Е
Sec. 10: Water Proofness	Υ
Sec. 11: Fluids Susceptibility, Cleaning Fluids	F
Sec. 12: Sand and Dust	D
Sec. 13: Fungus Resistance, Analysis	F
Sec. 14: Salt Spray Testing, Analysis	S
Sec. 15: Magnetic Effect	
Sec. 16: Power Input	
Sec. 17: Voltage Spike	
Sec. 18: AF Conducted Susceptibility	В
Sec. 19: Induced Signal Susceptibility	
Sec. 20: RF Radiated and Conducted Susceptibility	
Sec. 21: RF Radiated and Conducted Emissions	M
Sec. 22: Lightning Induced Transient	
Sec. 24: lcing	
Sec. 25: ESD Susceptibility	
Sec. 26: Fire, Flammability	С

HOW TO BUY:

Determine your part number for the ARINC 818 Video Converter Module as follows:



For Example:

2

MB-A8-44-O8-2X-DR-DDDD

Product Group 1 MC = No Bracket MB = 6-tab Bracket

00 = No Switch 44 = 4x4 Switch 66 = 6x6 Switch 88 = 8x8 Switch LS = Line Spy (ARINC 818 inputs)

Configuration

Link Rate (Gbps) 3X = 3.1875

Video Port DR = DVI RX DT = DVITXTM = Multiple TXChannels RM = Multiple RX

Channels

Channel Assignments 5 D = DVI/HDMI

E = EthernetH = SDI (SD/HD/3G)N = NTSC

P = PAL



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