



MOSARC™ AIR VEHICLE COMPUTER

OPEN SYSTEMS ARCHITECTURE, FUTURE-READY AVIONICS

Improving mission performance

Designed using common building blocks and industry-wide standards, Collins Aerospace Mosarc™ Air Vehicle Computer (AVC) offers considerable performance in a ruggedized package – qualified to operate through military electromagnetic and environmental conditions.

Our AVC is conformant to applicable MOSA standards while maintaining backward compatibility with current systems.

The Mosarc AVC is the next generation of general-purpose processing units (GPPU) for fixed and rotary-wing platforms. With functionality in a form/fit package equivalent to our legacy GPPU architecture, the Mosarc AVC provides support for large area displays in new and current platforms. This is accomplished using a line-replaceable unit (LRU) and mounting tray (MT) combination.

KEY FEATURES & BENEFITS

- System-level reduction in SWaP
- Support for current and next-generation displays
- Highly robust design for rugged applications
- MOSA conformant
- Implements the following standards: DO-297 (AIM), FACE, SOSA, HOST, CMOSS, ARINC653, ARINC661
- Built to satisfy Department of Defense (US) and international reference architectures
- Supports PYRAMID, ECOA and other open standards

Specifications

FEATURES

- Support for legacy I/O, graphics and processing currently available in CAAS systems
- Hosts multi-level DAL applications
- Supports legacy displays as well as next-generation large area displays
- System-level reduction in size, weight and power (SWaP)
- Installs quickly on platform with MT-4910 mounting tray
- Fiber video interfaces for next-generation applications

CHARACTERISTICS

Maximum Size	AVC-4910 8.88 in. W x 13.3 in. L x 7.88 in. H
	MT-4910 8.89 in. W x 14.94 in. L x 8.22 in. H
	Overall 8.89 in. W x 15.83 in. L x 8.59 in. H
Cooling methods	Forced convection cooled through use of MT-4910
Ambient operating temperature	- 40° C to 71° C
Maximum power	400 W (baseline configuration) 115 VAC, 400 Hz, 3-Phase
Maximum weight	AVC-4910: 36.83 lbs MT-4910: 3.55 lbs Overall: 40.38 lbs
Connectors	Mil Standard style circular connectors

INTERFACES

- ARINC 429 Systems I/O
- Discrete/Serial I/O
- Non-OpenGL Graphics Engine
- OpenGL 3D Graphics Engine
- ARINC 818 Video I/O
- SMPTE-292 Video
- RS-170 Video
- Commercial Ethernet Interfaces
- High Integrity Ethernet Interfaces

Specifications subject to change without notice.



COLLINS AEROSPACE

800.321.2223 | +1.319.295.5100
 fax: +1.319.378.1172
 helicopters@collins.com
 collinsaerospace.com/mosarc