AV700

MIL-STD Fanless Rugged System Computer

MIL-STD 810H

Power Automation Computer

- Intel® Core™ i7-6822EQ Processor (2.8GHz, 4 cores, 8 threads)
- Up To 32GB DDR4 Memory
- 1 x VGA, 2 x Gigabit Ethernet, 2 x USB, 2 x COM
- Rugged MIL-DTL-38999 connectors
- 9V~36V DC-in

Specifications

System	
High Power Processor	Intel® Core™ i7-6822EQ Processor (Frequency 2.0GHz, Turbo Boost Frequency up to 2.8GHz), 4-Core, 8 Thread Support, 8MB SmartCache. Build-in Turbo Boost Technology 2.0, VPro and Hyper-Threading support.
Memory type	2 x SODIMMs up to 32GB DDR4 2133MHz SDRAM
Chipset	Intel® QM170 Platform Controller Hub
Display	
Graphics Processor	Intel® HD Graphics 530
Resolution	Up to 1920x1080@60Hz 32bpp
Storage	
HDD/SDD	1 x 2.5" SSD
Ethernet	
Ethernet	1x Intel® i210IT Gigabit Ethernet 1x Intel® i219LM Gigabit Ethernet
Front I/O	
DC-In	1 (Amphenol TV07RW-11-54P)
Power Button	1 x Power Button with LED backlight
Ground Screw	1 x M4 Screw
Rear I/O	
X1	1 x LAN (Amphenol TV07RW-13-98S)
X2	1 x LAN (Amphenol TV07RW-13-98S)
X3	2 x USB (Amphenol TV07RW-13-98S)
X4	2 x COM (Amphenol TV07RW-13-35S)
X5	1 x VGA (Amphenol TV07RW-13-98S)
Power Requirement	
Power Input	Standard: DC-In 9~36V Optional : MIL-STD-1275, MIL-STD 704 and DO-160 power supply, 12 to 40V (150W max)

Applications, Operating System

Applications	Commercial and Military Platforms Requiring Compliance to MIL-STD-810G Embedded Computing, Process Control, Intelligent Automation and manufactur-ing applications where Harsh Temperature, Shock, Vibration, Altitude, Dust and EMI Conditions. Used in all aspects of the military.
Operating System	Windows 10 64Bit Ubuntu14.04, Fedora 20/23, RedHat Linux EL 7.1/7.2

Physical

Dimension (W x D x H)	230 x 83 x 280mm (9.06" x 3.27" x 11.02")
Weight	6.0 Kg (13.2lbs)
Chassis	Aluminum Alloy, Corrosion Resistant
Finish	Anodic aluminum oxide (Color Iron gray)
Cooling	Natural Passive Convection/Conduction. No Moving Parts
Ingress Protection	IP65

Environmental

MIL-STD-810G Test	Method 507.5, Procedure II (Temperature & Humidity) Method 516.6 Shock-Procedure V Non-Operating (Mechanical Shock) Method 516.6 Shock-Procedure I Operating (Mechanical Shock) Method 514.6 Vibration Category 24/Non-Operating (Category 20 & 24, Vibration) Method 514.6 Vibration Category 20/Operating (Category 20 & 24, Vibration) Method 501.5, Procedure I (Storage/High Temperature) Method 501.5, Procedure II (Operation/High Temperature) Method 502.5, Procedure I (Storage/Low Temperature) Method 502.5, Procedure II (Operation/Low Temperature) Method 503.5, Procedure I (Temperature shock)
Reliability	No Moving Parts; Passive Cooling. Designed & Manufactured using ISO 9001/2000 Certified Quality Program.
EMC	MIL-STD-461E : CE102 basic curve, 10kHz - 30 MHz RE102-4, (1.5 MHz) -30 MHz - 5 GHz RS103, 1.5 MHz - 5 GHz, 50 V/m equal for all frequencies EN 61000-4-2: Air discharge: 8 kV, Contact discharge: 6kV EN 61000-4-4: Signal and DC-Net: 1 kV

	EN 61000-4-5: Leads vs. ground potential 1kV, Signal und DC-Net: 0.5 kV EN 61000-4-2: Air discharge: 8 kV, Contact discharge: 6kV EN 61000-4-4: Signal and DC-Net: 1 kV EN 61000-4-5: Leads vs. ground potential 1kV, Signal und DC-Net: 0.5 kV EN 61000-4-2: Air discharge: 8 kV, Contact discharge: 6kV EN 61000-4-4: Signal and DC-Net: 1 kV EN 61000-4-5: Leads vs. ground potential 1kV, Signal und DC-Net: 0.5 kV EN 55022, class A EN 61000-4-3: 10V/m CE and FCC
Operating Temp.	-40 to 70°C (ambient with air flow)
Storage Temp.	-40 to 85°C
Relative Humidity	5% to 95%, non-condensing.

Ordering Information

AV700

MIL-STD Fanless Rugged System with Intel® Core™i7-6822EQ Processor, IP65 protection, MIL-STD D38999 Connectors, 9V to 36V DC-in, Wide Temp. -40 to 70°C

Dimension