



LAND



SEA



AIR



AV700

MIL-STD FANLESS RUGGED
SYSTEM COMPUTER



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
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ETHERNET

Ethernet	1x Intel® i210IT Gigabit Ethernet 1x Intel® i219LM Gigabit Ethernet
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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)
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APPLICATIONS, OPERATING SYSTEM

Applications	Commercial and Military Platforms Requiring Compliance to MIL-STD-810G Embedded Computing, Process Control, Intelligent Automation and manufacturing 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

