



LAND



SEA



AIR



AV700

MIL-STD FANLESS RUGGED
SYSTEM COMPUTER



IP65 COMPUTER FOR JBC-P

- 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
Option: 10GbE SFP+
- Rugged MIL-DTL-38999 connectors
- 9V~36V DC-in
Optional MIL-STD DC-DC 18V-36V

Specifications

SYSTEM

High Power Processor	Intel® Core™ i7-6822EQ Processor (TDP 25W, 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)
Option	10GbE Fiber via L-Com RLRJ121LC01A connector

POWER REQUIREMENT

Power Input	Standard: DC-In 9~36V Optional : MIL-STD 461 ,18 to 36V DC-In (300W max)
-------------	---

APPLICATIONS

Applications	Military Platforms Requiring Compliance to MIL-STD-810G Embedded Computing and applications subject to Harsh Temperature, Shock, Vibration, Altitude, Dust and EMI Conditions.
--------------	--

OPERATING SYSTEM

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 EN61000-4-2: Air discharge: 8 kV, Contact discharge: 6kV EN 61000-4-3: 10V/m 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

	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

