AV700-XV

IP65 Computer For Joint Battle Command Platform

MIL-STD Frame Grabber Computer

- Intel® Core™ i7-9850HL (up to 4.1GHz,TDP 25W) / Intel® Xeon® E-2276ML (up to 4.2GHz, TDP 25W)
- Video Frame Grabber IP65 Mission Computer
- Design for reliability under demanding MIL-STD-810 Thermal, Shock, Vibration, Humidity
- Up To 128GB DDR4 Memory
- 1 x VGA (Optional for HDMI), 2 x Gigabit Ethernet, 2 x USB, 2 x COM
- Option: 10GbE SFP+
- Rugged MIL-DTL-38999 connectors
- 9V~36V DC-DC
- Optional Military-Grade DC-DC 18V-36V
- Extended Temperature -40°C to 70°C
- Available For 8 x D1 Fame Grabber Card

Specification

System	
CPU	Intel® Core™ Coffeelake-H Processor Intel® Core™ i7-9850HL (4.1GHz, 6 cores, 12 threads, TDP 25W) Intel® Xeon® E-2276ML (4.2 GHz, 6 cores, 12 threads, TDP 25W)
Memory type	4 x SODIMMs up to 128GB DDR4
Expansion Slot	1 x M.2 , NVMe Up to 2TB
Storage Device	1 x 2.5" SATAIII up to 4TB
Ethernet	1 x Intel® I210-IT
Chipset	1 x Intel® I219-LM
Front I/O	
Power Button	Water Resistive Power Button with LED Backlight
DC-IN	1 (Amphenol TV07RW-11-54P)
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 Optional for DVI)
Option	10GbE Fiber via L-Com RLRJ121LC01A connector
Display	
Graphics Processor	Intel® UHD Graphics 630
Resolution	Up to 1920x1080@60Hz 32bpp
OS support list	
Windows	Windows 10 64bit
Linux	Ubuntu14.04, Fedora 20/23, RedHat Linux EL 7.1/7.2

Mechanical and Environment

Power Requirement	Standard: 9V to 36V DC-in Optional: MIL-STD-1275, MIL-STD 461 , 18 to 36V (300W max)
Dimension	230 x 83 x 280mm (9.06" x 3.27" x 11.02")
Ingress Protection	IP65
Weight	6.0 kg
Operating Temp.	-40°C to 70°C (ambient with air flow)
Storage Temp.	-40°C to 85°C
Relative Humidity	5% to 95%, non-condensing

Test Standard

MIL-STD-810G Test	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) Method 507.5, Procedure II (Temperature & Humidity) Method 514.6 Vibration Category 24/Non-Operating (Category 20 & 24, Vibration) Method 514.6 Vibration Category 20/Operating (Category 20 & 24, Vibration) Method 516.6 Shock-Procedure V Non-Operating (Mechanical Shock) Method 516.6 Shock-Procedure I Operating (Mechanical Shock)
EMC compliance	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 61000-4-3: 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
Green Product	RoHS, WEEE compliance