



Ruggedized Embedded Systems

Connect Tech's Engineered Solutions provide rugged systems for the most challenging environments. Tested and complies with MIL-STD-810G ratings for Vibration and an operating temperature of -40 to +85 degree C.

Product Name: Ruggedized Embedded Systems
Part Number: ESG101



Processing Core	
CPU	Intel® Core™ i7-3517 (2 x 2.8 GHz, 4MB L2 cache, 17 W)
Chipset	Intel QM77
Memory	8GB DDR3L Memory
I/O	
Ethernet	2 x Gigabit (10/100/1000) Ports
Video	Analog CRT /VGA Output
USB	4 x USB 2.0 Ports
Audio	1 x Analog Stereo Input, 1 x Analog Stereo Output
GPIO	8-bits GPIO
Connectors	2 x MIL-DTL-38999 17-35 (I/O) 1 x MIL-DTL-38999 9-98 (Power)
Expansion	Dual miniPCIe/mSATA expansion
Storage	Up to 128GB SLC or 1TB MLC mSATA SSD
RF/Wireless	Locations for 4 x SMA antenna connections
Power	
Vin range	+16.5V to 50V DC (+13.9V to 50V DC after startup)
Transient Protection	MIL-STD-704A/E/F and MIL-STD-1275A/B/D
EMI Filtering	MIL-STD-461E/F
Available Output	120W continuous
Mechanical	
Dimensions	9.38 in X 8.25 in X 2.78 in (w/Mount Brk't) (238.25 mm X 209.55 mm X 70.61 mm) (exclude connectors)
O.A.L. (with connectors)	10.69 in (271.53 mm)
Mounting	4 x brackets with 1/4-20 (M6) Bolt Clearance Hole Layout 8.00 in X 7.19 in (203.20 mm X 182.63 mm)
Weight	7.1 lb (3.2 kg)
Material	Corrosion Resistant Aluminum Alloy
Finish	Black Anodize per MIL-A-8625
Cooling	Passive Conductive (no fans/moving parts)
Environmental	
Vibration	Tested to MIL-STD-810G method 514.6
Shock	Tested to MIL-STD-810G method 516.6
Operating Temperature	Tested to -40°C to +85°C MIL-STD-810G method 501.4 (high) MIL-STD-810G method 502.4 (low)

FEATURES

- ✓ High Performance Intel® Core™ i7
- ✓ Tested to MIL-STD-810G for Shock, Vibration and Temperature
- ✓ Wide range MIL-STD Input Power +16.5V to 50V DC
- ✓ Transient Protection to MIL-STD-704
- ✓ EMI Filtering to MIL-STD-461

RoHS

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