COMPACT MILITARY MISSION COMPUTER

The RWC-DK673-2 “Hawkeye-2” is a cost-saving, rugged computer engineered and constructed for deployment on military ground vehicles, navy ships, and aircraft. The RWC-DK673-2 features AMD’s RYZEN 8-Core/16-Thread 1.70Ghz V2718 CPU, Radeon 6/7 Renoir Graphics, 32GB LPDDR4 3733 Dual Channel RAM and a 500GB SSD.

Video support includes 1x USB-C to Display Port 1.4 port and 2x 3G-SDI ports. External communication is provided by 2x USB 2.0, 2x bios configurable RS232/RS422 channels and 2x connectors. The connectors are installed on a removable panel providing ease and flexibility for reconfiguration for meeting different mission requirements.

The machined aluminum housing measures 6.75” wide x 6.44” deep x 3.20” tall and is environmental sealed against dust, sand and water incursion. A relief valve is provided to protect against internal pressure variations during wide altitude changes including rapid decompression. Cooling is by conduction and convection.

The RWC-DK673-2 complies with MIL-STD-167 for vibration, MIL-STD-810 for Functional, Transit Drop and Crash Safety and MIL-STD-910D Shock.

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COMPACT MILITARY MISSION COMPUTER

SYSTEM	
CPU	AMD RYZEN™ V2718, 8/16t, 1.70GHz
Memory	32GB LPDDR4x, 3733 Dual Channel
RTC Battery	Connection for Lithium Batter, 3V/240mAh; battery not included
OS Support	Windows 10/11 64 bit; Linux Ubuntu 20.04.3/Kernel 5.18.0-4449-AMD+
Controller	AMD Radeon 6/7 Renoir Graphics
Display Interface	1x Type C to Display Port 1.4, 3840 x 2160 60Hz 2x 3G-SDI via HDMI Conversion, 1080p/60Hz
Ethernet	1x Intel i225/i226 2.5GbE; 1x Intel i210 1GbE
USB	2x USB 3.2 Gen2
Serial Port	1x RS232, 1x RS422 Bios Configured
M.2 Expansion Port	1x M.2 2280 M-Key Port
Mini PCIe Expansion Port	1x Full Size mPCIe Port
ENVIRONMENTAL COMPLIANCE	
Vibration-Functional	MIL-STD-167
Shock-Functional	MIL-STD-801G: 20G-11ms X/Y/Z
EMI/EMC	MIL-STD-461G: RE102, CE102, RS103, CS101, CS114, CS115, CS116
Safety	CE/CSA
Ingress Protection	Environmental Gasket Sealed to IP66
Drip Proof	MIL-STD-810G
Sand/Dust	MIL-STD-810G
Fungus	MIL-STD-810G: Non-Nutrients/Contaminants
Temperature: Operating & Storage	-40ºC to +85ºC
Humidity	10 - 90% RH @ 40ºC
Explosive Atmosphere	MIL-STD-810G
Altitude: Operationg & Storage	0 ft. To 40,000 ft.
Rapid Decompression	8,000 ft. to 40,000 ft. to 25,000 ft. per MIL-STD-810G
PHYSICAL	
Size	6.75”W x 6.44”D x 3.20”H (without Heat Sink)
Weight	6.6 lbs. (3.0 kg) nom
MTBF	55,000 hrs.

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