

Quora™ X-series - QX-1000

Rugged Systems for High Performance
Mission Critical Computing



- Perfect for CPU and graphic-intensive mission critical applications
- Commercial off-the-shelf (COTS) technology for cost-effective flexibility
- Size, weight, and power (SWaP) optimized for mobile platforms
- Designed to MIL-810 standards for reliability in extreme environments
- Customizable for program specific requirements

Quora™ is a family of rugged embedded computers designed for use in mission critical airborne, ground and shipboard applications. Quora systems are designed and built around rugged, small form factor (SFF) COTS-based subsystems. They are modular and expandable, with state-of-the-art processors, powerful graphics and data processing options available to satisfy a wide variety of mission requirements. Consisting of pre-integrated and pre-qualified subsystems, our mission computers help get your program validated and deployed faster, while minimizing the costs and risks associated with a new design effort. Quora tactical mission computers are ideal for use in C4ISR technology refresh and platform upgrade programs under thermal, shock and vibration extremes in unmanned and manned aircraft, ground vehicles, and maritime platforms.

The Quora X-series™ features Intel® Xeon® processors with integrated high-end Intel Iris™ Pro Graphics capabilities. Optimized for size, weight and power (SWaP) constrained applications and ruggedized to meet military environmental standards, the Quora X-Series is an ideal fit for manned/unmanned mobile platforms. It combines multi-core processors with world-class integrated graphics to support a broad range of commercial and defense-related tactical mission processing requirements.

Quora™ X-series

System Specifications	
Model	QX-1000
Description	Standard Baseline System*
Processor	Intel® Xeon® E3-1515M V5 2.8GHz CPU with 8MB cache
Graphics	Integrated Intel® Iris™ Pro Graphics P580
Memory	32GB DDR4 ECC SO-DIMM
Storage	256GB mSATA SSD (M.2 option available)
Video Output	Two (2) DisplayPort 1.2 (DP++)
Standard IO	Two (2) USB 2.0 connections with fixed outputs Two (2) Gigabit Ethernet (GigE) connections Two (2) configurable multi-serial I/O ports: RS-422, RS-485 or RS-232 Stereo audio in and out Factory configurable GPIO (16 ports), ADC and/or DAC options
Expandability	Mini PCIe, MIL-STD-1553; CANBus; Video Capture Optional Internal 8 port managed Gigabit Ethernet (GigE) switch available
Power	12V to 36V input, MIL-STD 1275E compliant
Environmental	Fanless (optional air-cooling with rugged fan shroud) Operating Temp: -40 to +55
Mechanical	Material: Machined Aluminum - Black Anodized Ingress: IP-67 Dimensions: 178 x 125 x 69mm / 7 x 4.9 x 2.7in (L x W x H) Weight: ~2.5kg / 5.5lbs
OS Support	Windows 10 Pro, Linux
Ruggedization	Designed to meet MIL-810 Temperature, Shock and Vibration standards

*Please contact your Dynatem representative for configuration and customization options

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Since 1981, Dynatem has been a trusted supplier of rugged and secure mission-critical solutions for defense and aerospace applications. We are proven experts in designing and building rugged, small form factor technology products for use in harsh environments. Dynatem solutions can be found in mission-critical defense systems around the world—powering airborne, ground and shipboard deployments.