CORE SYSTEMS

RUGGED M1U-22 DISPLAY

Military-Grade LCD Display

The Rugged **M1U-22** portable computer is a 1U, 22″-depth all-in-one system with a built-in 17″ HD display and sealed keyboard with touchpad. Designed for rackmount use in space-constrained, mission-critical environments, it delivers a complete workstation in a slim 1.75″ chassis. The pull-out display and input system let operators access and control equipment directly at the rack without external peripherals.

Powered by the latest Intel® Xeon® scalable processors and configurable to meet application needs, the M1U-22 is built for durability and performance. It meets MIL-STD 810 standards for shock, vibration, temperature, and humidity, with optional MIL-STD-461 EMI filtering. Weighing approximately 20 lbs, it's SWaP-optimized and ideal for defense, aerospace, and mobile command deployments requiring rugged, compact computing.

- Application-specific design
- Tested to meet military standards
- Built in the USA

Featured Specifications

Dimensions
Height: 1.75″ | **Depth:** 22.00″ | **Width:** 19.00″

Display
Pull-Out 17″ Display

Resolution
1920 × 1080

Display Input
RGB/DVI/HDMI/HD-SDI/S-Video Composite (Configurable)

Power
Power options available

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Technical Specifications

Dimensions
Height: 1.75 inches, Width: 19.00 inches, Depth: 22.00 inches
Weight: 20.00 lbs

Display
Pull-Out 17'' Display

Resolution
1920 × 1080

Display Input
RGB/DVI/HDMI/HD-SDI/S-Video/Composite (Configurable)

CPU
latest Intel Xeon scalable processors

Power
Power options available

Keyboard
Sealed integrated keyboard with touchpad

Brightness
400+ Nits

Color Depth
16.7M

Chassis
Lightweight aluminum chassis

Enviromental Specifications

Operational Temperature
MIL-STD-810F, Method 501.5, Procedures I/II: -15°C to +55°C

Storage Temperature
MIL-STD-810F, Method 501.5, Procedures I/II: -15°C to +55°C

Humidity
MIL-STD-810F, Method 507.4: 95% RH, 48 hours at 40 – 65°C

Altitude
MIL-STD-810F, Method 500.4: 12,500 ft operation; 40,000 ft transport

Vibration
MIL-STD-810G, Method 514.6: 4.43 GRMS, 5-20000Hz, 60 min/axis

Shock
MIL-STD-810G, Method 516.6: 20g, 11ms functional; 40g, 11ms crash hazard

EMC
MIL-STD-461F: CE & RE emissions

Work With Core Systems Today

Core Systems designs and builds rugged servers, displays, mission computers, and integrated cabinet solutions for military and industrial applications. From our 85,000 sq. ft. San Diego facility, we deliver cutting-edge, durable computing solutions for mission-critical needs.

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