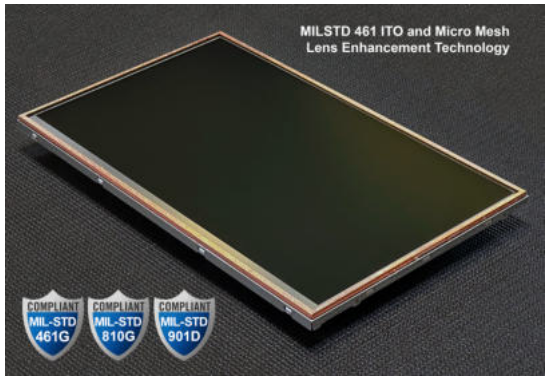
MIL1U17-14

1U Military-Grade Rackmount KVM Drawer

Rugged 1U rack drawer designed for military and industrial rackmount or transit-case installations. Precision-cut 5052-H32 and 6061-T6 aluminum construction, chemically strengthened anti-glare cover glass, and configurable display, keyboard, switching, and interface options support demanding environments.



Features and Configuration Options

- Rugged aluminum housing for 19-inch racks and transit cases
- Integrated cable guide and adjustable telescoping rear support arms
- MIL-style C300 friction slides and C90 two-pin power inlet
- Multiple display, keyboard and integrated KVM switch options
- Optional conformal-coated electronics and application-specific I/O
- Chemically strengthened anti-glare lens; optional EMI/ITO glass
- Optical bonding, heated glass, NVIS, high-brightness and touch options
- Designed for shock- and vibration-sensitive applications

MADE IN USA

TAA COMPLIANT

Military-standard qualification and optional enhancements depend on configuration and testing.

Display and Keyboard Options

KVM Switch Options

SD1 4-port DisplayPort

SE2 / SE4 8 / 16-port VGA

SE3 8-port VGA/USB

SG1 4-port DVI

SO4 4-port HDMI

SK1 4-port VGA

LCD Panel Options

Model Number MIL1U15-02

15HB 15 in | 1024 x 768

1800 nits | 800:1 | 6 ms

-30 to +70 C operating

LED backlight; anti-glare

Model Number MIL1U17-14

17LH 17 in | 1280 x 1024

350 nits | 800:1 | 20 ms

-30 to +85 C operating

LED backlight; anti-glare

Model Number MIL1U17-15

17HB 17 in | 1280 x 1024

1600 nits | 800:1 | 15 ms

-20 to +65 C operating

LED backlight; anti-glare

Model Number MIL1U17-16

173W 17.3 in | 1920 x 1080

400 nits | 600:1 | 40 ms

-10 to +70 C operating

LED backlight; anti-glare

Model Number MIL1U17-17

173HB 17.3 in | 1920 x 1080

1000 nits | 600:1 | 40 ms

-10 to +70 C operating

LED backlight; anti-glare

Model Number MIL1U17-18

173U 17.3 in | 3840 x 2160

400 nits | 1000:1 | 27 ms

0 to +50 C operating

LED backlight; anti-glare

Keyboard Options

K Series

119-key US/UK; touchpad; optional CAC; 50M cycles

K1 Series

Thin rugged; touchpad and FSR; green LED backlight

K2 Series

Thin OEM; FSR pointing device; 10M cycles

K3 Series

Mobile; FSR; sand/debris resistant; 10M cycles

K4 Series

NEMA 4 sealed; two-button glidepad; 10M cycles

Other configurations may be available; specifications depend on selected components.

Military Standards and Qualification Options

Designed-to-Meet (DTM) Requirements

The rack drawer can be configured to target specified military environmental and electromagnetic compatibility requirements. Applicable standards, methods, procedures, acceptance criteria and required enhancements must be identified during quotation. Designed-to-meet does not by itself establish certified compliance.

Operational temperature	MIL-STD-810F/G | -10 to +50 C
Storage temperature	MIL-STD-810F/G | -30 to +60 C
Humidity	MIL-STD-810F/G | methods and procedures TBD
Altitude	MIL-STD-810F/G | methods and procedures TBD
Vibration	MIL-STD-810F/G | 167 or 516.2 (per source)
Shock	MIL-STD-810F/G | 901E Grade A or Grade B
EMI	MIL-STD-461F/G | CE102, RE101, RE102, CS101,
	CS114, CS116, RS101 and/or RS103

Testing and Configuration Notes

Military-standard test results and qualifications are configuration-specific. Formal verification must be arranged with the appropriate test provider. Confirm environmental, EMI, shock and vibration requirements before ordering.

Optional enhancements include conformal coating, specialized lens assemblies, MIL-style power connections, high-brightness displays, and selectable keyboards and KVM switching.

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Detailed Specifications

Specifications below apply to the 17" SXGA monitor configuration; other options may differ.

LCD, I/O and Power

Panel	a-Si TFT LCD
Backlight	LED
Resolution	1280 x 1024
Contrast	800:1
Brightness	350 cd/m2
Viewing angles	80/80/60/80
Pixel pitch	0.264 x 0.264 mm
Color	16.7 million
MTBF	50,000 hours
Response time	20 ms
Lens treatment	Anti-glare; 3H hard coating
Lens enhancement	Optical bonding option
Touch	Optional resistive or PCAP
Color gamut	72% NTSC
VGA	DB15 male
HDMI / DVI	Locking HDMI connector
DisplayPort	Locking full-size connector
USB touch	USB 2.0 Type A
DC power	12 VDC; optional 9-36 VDC
Power connector	MIL locking C90
AC power	UL-listed AC/DC brick; MIL option

Mechanical and Environmental

Height	1.75 in
IP protection	TBD by requirements
Mounting	20 in rack; rear arms 20-28 in
Housing	Aluminum, black powder coat
Operating temp.	-30 to +85 C; methods 501.4/502.4
Storage temp.	-30 to +85 C; methods 501.4/502.4
Humidity	5%-95% noncondensing; 507.4
Vibration	5-500 Hz / 1 Grms PTP; 514.5
Shock	15G peak, 11 ms; method 516.5
Dimensions	19 x 1.75 x 20 in (W x H x D)
Packing size	22 x 5 x 25 in (W x H x D)
Net / gross weight	17 / 25 lb
Listed approvals	UL / CE / FCC / RoHS
Altitude test	10,000 / 30,000 ft
Power control	Front on/off button
Status	Power-mode LED indicator
OSD	Front-panel OSD buttons

All specifications are configuration-dependent; confirm final requirements before ordering.