19"/2® KSW1101



KVM Switch in a 19"/2® form factor

The KSW1101 is a KVM switch for DVI and USB input in a fully rugged enclosure. It accepts up to four inputs/sources of DVI and USB2.0, and has one output which provides a DVI, USB2.0 and serial connection. The serial connection is for remote KVM control of the unit.

Small form factor

The MilDef 19"/2° form factor is optimized for reduced size, weight, and power (SWaP) to meet industry and military requirements without sacrificing reliability, ruggedness or performance.

Flexible mounting

The 19"/2° standard enables flexible mounting options for a wide array of integration scenarios. The unit can be mounted in a standard 19" rack, half racks, or directly on to a surface and at any angle.

Military-relevant rugged design

MilDef products are designed to operate in extreme environmental conditions and challenging electromagnetic operational scenarios. Operationally proven, MilDef products are actively employed in military operations in over 60 countries.

Guaranteed performance

MilDef products are designed for the long lifecycles of military programs and come with a lifetime support program to ensure your equipment maintains peak performance for many missions to come.

We also guarantee the availability of spare parts for an additional 5 years after product end-of-life.

Features

- 4x DVI and USB inputs on the front
- Single DVI and USB output on the back
- Output select button to toggle between outputs
- Interface for optional external remote



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Connector Interfaces	
SERVICE (back)	1x RS232 Service
X1 DC IN (back)	• 1x Power
X2-X5 (front)	 4 connectors which each has: 1x DVI 1x USB2.0 1x Digital IO
X6 (back)	 1x RS232/RS422 1x Digital-IO 1x Power 1x MBU interface
X7 (back)	 1x DVI 1x USB2.0 1x RS232 1x MBU interface 1x GND

Other Interfac	
	ler.

4x Status indicator (front)

1x Output select button (front)

Technical Specification	
Blanking	Double-pressing the System button
Graphics resolution	Max 1920 x 1200 on DVI
MIL-STD-1275D	5.3.2.2 5.3.2.3 5.3.2.4
Polarity protection	Protected against polarization failure on the power input in the voltage range of normal operation
Power consumption	5 W
Power input	10-32 VDC
Chassis material	Aluminum
Coating and color	Dupont AE0305-1101320 (RAL 1013)
Cooling	Passively cooled
Dimensions width and height	220 x 43.4 mm (8.66 x 1.71 in) (WxH)
Earth point	M6 12 mm
Surface treatment chassis	Chromit-Al
Unit depth	282 mm (11.1 in)
Weight	2.1 kg (4.6 lbs)
MTBF	198,352 h
CE	Compliant

Environmental Specification		
Functional shock - Operating	MIL-STD-810G, Method 516.6, Procedure I - Functional Shock. Table 516.6-II, Terminal peak sawtooth pulse, Ground equipment 40 g 11 ms	
High temperature - Operating	MIL-STD-810G, method 501.5, Procedure II - Operation 65 °C (149 °F)	
High temperature - Storage	MIL-STD-810G, Method 501.5, Procedure I - Storage 71 °C (160 °F)	
Humidity	MIL-STD-810G, Method 507.5, Procedure II - Aggravated 95 ± 4 % RH Ten 24 h cycles	
IP Class (Solid Particle Protection) IP Class 6X	
IP Class (Water)	IP Class X5	
Low air pressure - Rapid decompression	MIL-STD-810G, Method 500.5, Procedure III - Rapid decompression 75.2 kPa, corresponding to 2,438 m (8,000 ft) 17 kPa, corresponding to 12,192 m (40,000 ft)	
Low air pressure - Operating	MIL-STD-810G, method 500.5, Procedure II - Operation/Air Carriage 4,572 m (15,000 ft)	
Low temperature - Operating	MIL-STD-810G, method 502.5, Procedure II - Operation -40 °C (-40 °F)	
Low temperature - Storage	MIL-STD-810G, method 502.5, Procedure I - Storage -40 °C (-40 °F)	
Noise level	Maximum noise level of 28 dB SPL A-weighting at 1 m (3.3 ft) distance	
Salt fog	MIL-STD-810G Method: 509.5 5 % \pm 1 % (by weight) Two cycles, 24 h wet + 24 h dry / cycle	
Temperature shock - Operating	MIL-STD 810G, method 503.5 procedures I - C, - Multi-cycle shocks from constant extreme temperature 55 °C (131 °F) -40 °C (-40 °F)	
Vibration - Helicopter	MIL-STD-810G. Method 514.6, Procedure I - General vibration, Category 14 - Rotary wing aircraft - helicopter	



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Vibration - Loose cargo	MIL-STD-810G. Method 514.6, Procedure II - Loose cargo transportation, Category 5 - Truck/ trailer - loose cargo
Vibration - Tracked vehicles	MIL-STD-810G. Method: 514.6, Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, tracked vehicles
Vibration - Wheeled Vehicle	MIL-STD-810G. Method: 514.6, Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, wheeled vehicles

EMC Specification	
EMI conducted CE102	MIL-STD-461F, Method CE102 BASIC CURVE 10 kHz to 10 MHz
EMI radiated RE102	MIL-STD-461F Navy Mobile & Army 2 MHz - 18 GHz
EMS conducted CS101	MIL-STD-461F, Method CS101, conducted susceptibility, power leads. CURVE #1 30 Hz to 150 kHz
EMS conducted CS114	MIL-STD-461F Army, Ground 10 kHz - 200 MHz
EMS conducted CS115	MIL-STD-461F Conducted susceptibility, bulk cable injection, impulse excitation
EMS conducted CS116	MIL-STD-461F 10 kHz - 100 MHz
EMS radiated RS103	MIL-STD-461F Army 2 MHz - 1 GHz

