

19"/2"® KSW2101



Rugged DVI Splitter

This rugged DVI Splitter takes one DVI input and forwards it onto four DVI outputs. The system controller communicates EDID information, which can be modified by the user via the service port. The unit powers up automatically when connected to a power source.

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.

Customizable

Are you looking for additional features and functions? MilDef specializes in customized solutions, to include change of connectors, chassis modifications, mounting solutions, etc. Contact your nearest MilDef Sales Office and we will help you tailor a solution to meet your exact requirements.

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

- One DVI input
- Four DVI outputs
- SWaP optimized
- 10-36V DC
- Passively cooled

Connector Interfaces

SERVICE (back)	• 1x RS232 Service
X1 DC IN (back)	• 1x Power
X2-X5 (front)	4 connectors which each has:
	• 1x DVI Output
X6 (back)	• 1x DVI Input

Other Interfaces

1x System button (front)

Technical Specification

Graphics resolution	1920 x 1080 @ 60 Hz 3840 x 2160 @ 30 Hz
Polarity protection	Protected against polarization failure on the power input in the voltage range of normal operation
Power consumption	15 W
Power input	10-36 VDC, maximum 1.5 A
Chassis material	Aluminum
Coating and color	Dupont AE0305-1101320 (RAL 1013)
Cooling	Passively cooled
Earth point	M6 12 mm
Surface treatment chassis	Chromit-Al
Weight	1.2 kg (2.7 lbs)
MTBF	588,000 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 @ 1 m distance

Salt fog

MIL-STD-810G Method: 509.5 5 % ± 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

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

19"/2[®] KSW2101

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