

19"/2 SSW4101



Serial Device Server

The 19"/2 SSW4101 is based on the MOXA NPort 5650I-8-DTL-T. The unit acts as a bridge between serial interfaces and the ethernet network. It creates virtual machines for each COM-port and converts the serial traffic to IP-traffic.

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

- Connect up to 8 serial devices to an Ethernet network
- Supports RS-232/422/485 serial devices
- 10/100Mbps Ethernet
- Configure by Telnet, HTTP(s), or Windows utility
- SNMP MIB-II for management
- Based on the MOXA NPort 5650I-8-DTL-T

Connector Interfaces

SERVICE (back)	<ul style="list-style-type: none"> 1x RS232 Service
X2-X5 (front)	4 connectors which each has: <ul style="list-style-type: none"> 1x RS232 1x RS422
X1 DC IN (front)	<ul style="list-style-type: none"> 1x Power
X7-X10 (back)	4 connectors which each has: <ul style="list-style-type: none"> 1x RS232 1x RS422
X6 (back)	<ul style="list-style-type: none"> 1x ETH 100BASE-TX

Other Interfaces

1x LAN indicator (back)
4x RS232 status indicator (front)
4x RS232 status indicator (back)
1x System button (front)

Technical Specification

CE	Compliant
Configuration options	Serial Console, Telnet Console, Web Console (HTTP/HTTPS), Windows Utility
LAN 100BASE-TX	100BASE-TX standard
Management functionality	ARP, BOOTP, DHCP Client, DNS, HTTP, HTTPS, ICMP, IPv4, LLDP, Rtelnet, SMTP, SNMPv1/v2c, Telnet, TCP/IP, UDP
Reference design	Based on the MOXA NPort 5650I-8-DTL-T
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	Typical 6 W
Power input	12-32 VDC
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	3 kg (6.7 lbs)
MTBF	Greater than 25,000 h

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 55 °C (131 °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 40 dB SPL A-weighting at 1 m (3.3 ft) 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)
Transit drop, in shipping package	MIL-STD-810G, method 516.6, Procedure IV - Transit Drop. Table 516.6-VI, Transit drop test, < 45.4 kg (100 lbs), < 91 cm (36 inch), Manpacked or man-portable

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

