MILTECH™ 102S

Single GbE Port PoE Splitter With 65W Max. Output Power

The MILTECH 102S is a compact, rugged, standalone Single Port PoE Splitter designed to extract DC Power from a 100M/1G Power over Ethernet interface. The PoE splitter is useful for single cable PoE installation whereas legacy endpoint equipment is used with no support in PoE. This device simplifies the installation based on a single cable with no need in a dedicated power source near the endpoint equipment.

This Splitter supports one 100M/1G Ethernet port, supporting high-speed data transfer while providing up to 65W DC power to the legacy/non-PoE endpoint equipment. It is offered and 3 different models (5V/12V/24V DC OUT), ensuring compatibility with a wide range of devices. The MILTECH 102S is cyber-protected because it does not have any memory elements, ensuring no data storage vulnerabilities.

Built with a rugged aluminum chassis, the MILTECH 102S is conductively cooled with no moving parts, making it highly durable and compliant with MIL-STD-810 and MIL-STD-461 standards. It operates effectively in extreme temperatures ranging from -40°C to +85°C, ensuring reliable performance in a wide range of environmental conditions. The device is also dust and moisture-resistant, providing additional protection in challenging environments. Furthermore, the MILTECH 102S is compliant with REACH and RoHS standards, ensuring it meets environmental and safety regulations.

The MILTECH 102S is versatile and can be used in various military and defense scenarios. It is particularly suited for tactical communication systems, enhancing communication reliability and efficiency in the field. It is also ideal for surveillance systems, providing power and data connectivity for non PoE surveillance cameras and sensors.

The MILTECH 102S is part of a broader product line that includes various PoE solutions tailored to different needs. It can be coupled with either a PSE Ethernet Switch (e.g. MILTECH 610-PoE, MILTECH 910-PoE, MILTECH 1000/1100) or with MILTECH 102 standalone PoE injector device. These products are designed to meet the diverse requirements of modern military operations, ensuring that there is a suitable PoE solution for every scenario.
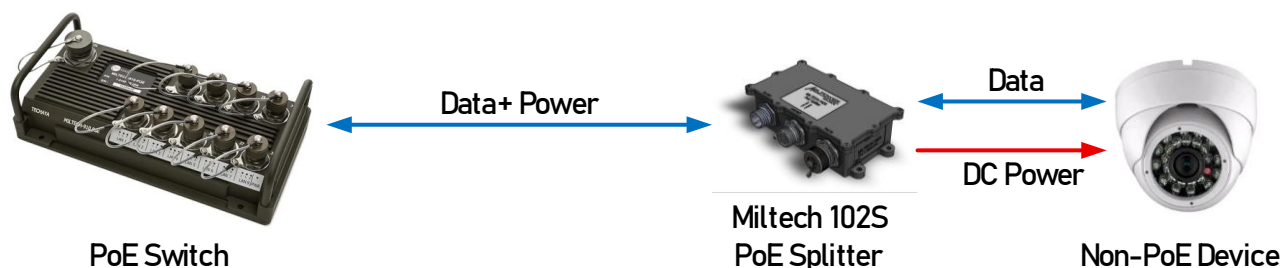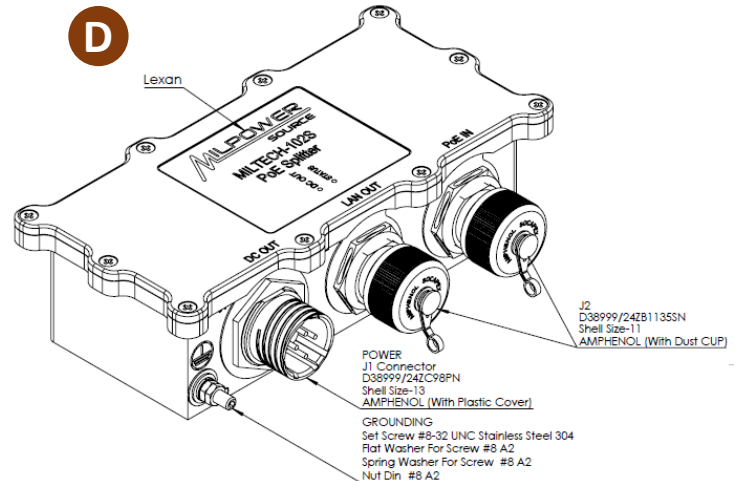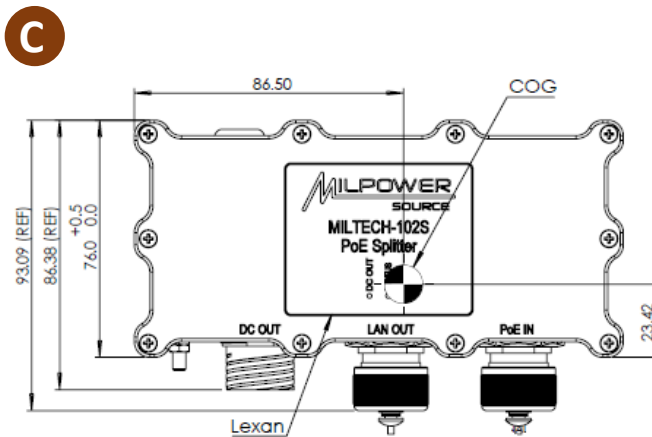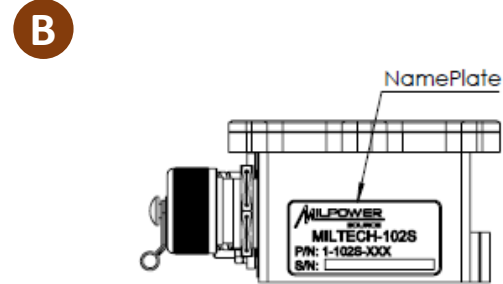

NIST 800-171 Compliant

AS9100D CERTIFIED ISO 9001

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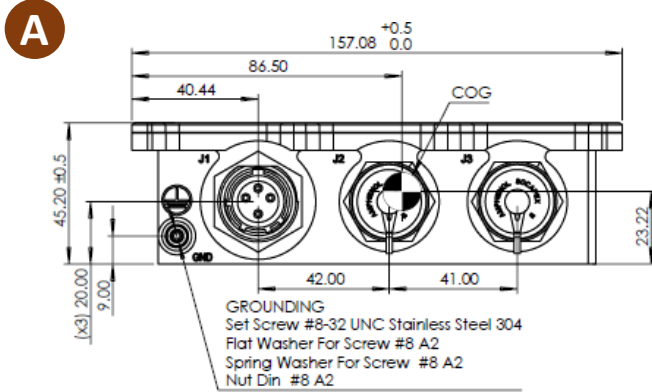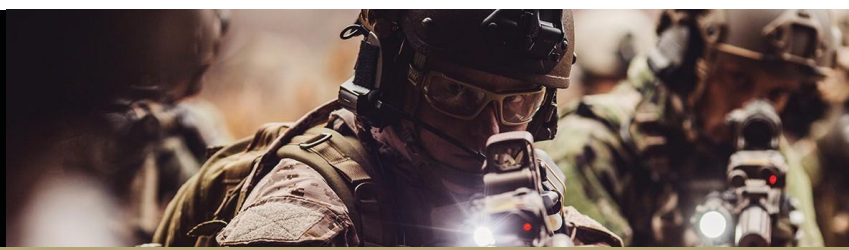
SPECIFICATIONS

PORTS:	• 1 x 10/100/1000BT port with PoE input • 1 x 10/100/1000BT port • 1 x DC output
CONNECTORS:	• J1 Power: D38999/24ZC98PN • J2 LAN: D38999/24ZB35SN • J3 PoE and Ethernet: D38999/24ZB35SN • Chassis ground: #8-32 UNC stainless steel screw
POWER:	• Power Input: All PoE standards, IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt, PoH • Power Output per configuration: 24V@2.7A, 12V@5.4A, 5V@3A (dedicated product P/Ns)
NETWORKING SECURITY:	• No Memory elements
STANDARDS:	• RoHS and REACH Compliance
ELECTROMAGNETIC:	• MIL-STD-461F Electromagnetic compatibility CE-101, CE-102, CS-101, CS-114, CS-115, CS-116, RE-101, RS-102, RS101, RS103
ENVIRONMENTAL:	• IP67 • MILSTD-810: Random vibration, Bench Handling, Air Pressure, Blowing Rain, Immersion, High/Low Temp, Humidity, Salt Atmosphere, Blowing Dust, Loose Cargo Vibration
CHASSIS:	• Low profile rugged machined aluminum • Conductively cooled • Ingress protection against sand, dust and moisture • Material: AL6061-T651 per AMS QQ-250/11 • Anodize Coating, MIL-A-8625, Type II, Class 2, Black color
PHYSICAL:	• Dimensions: 157mm(L) x 76mm(W) x 45.2mm(H), not including connectors • Dimensions: 6.18" (L) × 2.99" (W) × 1.78" (H), not including connectors • Weight: Approx. 0.4KG (0.88lbs)
COOLING:	• No Moving Parts. Passive Cooling.
TEMPERATURE:	• Operational: -40ºC to +85ºC (-49°F to +185°F) • Storage: -40ºC to +85ºC (-49°F to +185°F)

Application Information:

PoE Switch — Data+ Power — Miltech 102S PoE Splitter — Data / DC Power — Non–PoE Device

A

157.08 +0.5 0.0
86.50
40.44
COG
J1 J2 J3
45.20 ±0.5
23.22
(x3) 20.00
9.00
GND
42.00 41.00

GROUNDING
Set Screw #8-32 UNC Stainless Steel 304
Flat Washer For Screw #8 A2
Spring Washer For Screw #8 A2
Nut Din #8 A2

B

NamePlate

MILPOWER SOURCE
MILTECH-102S
P/N: 1-102S-XXX
S/N:

C

86.50
COG
93.09 (REF)
86.38 (REF) +0.5 0.0
76.0

MILPOWER SOURCE
MILTECH-102S
PoE Splitter

23.42
DC OUT LAN OUT PoE IN
Lexan

D

Lexan

MILPOWER SOURCE
MILTECH-102S
PoE Splitter

PoE IN
LAN OUT
DC OUT

J2
D38999/24ZB1135SN
Shell Size-11
AMPHENOL (With Dust CUP)

POWER
J1 Connector
D38999/24ZC98PN
Shell Size-13
AMPHENOL (With Plastic Cover)

GROUNDING
Set Screw #8-32 UNC Stainless Steel 304
Flat Washer For Screw #8 A2
Spring Washer For Screw #8 A2
Nut Din #8 A2

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1-102S-000	Single GbE Port PoE Splitter With 65W Power Budget, Output Voltage 24V
1-102S-001	Single GbE Port PoE Splitter With 65W Power Budget, Output Voltage 12V
1-102S-002	Single GbE Port PoE Splitter With 65W Power Budget, Output Voltage 5V
2-CBL102PWR	J1 Power harness for MILTECH 102S
2-CBL910PoELN	J2/3 LAN harness for MILTECH 102S

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