

Semper4 Modules

Stackable Surge Suppressor for Network Devices

Application: The Semper4 is a robust, versatile surge protection device, designed to protect mission critical equipment from failure due to lightning strikes and other transients. Each unit is stackable with other Semper4 units, as well as with the SemperLite Power SPD, providing customizable installations sizes. Semper4 modules can be populated with up to four RackShield2 modules¹ to meet user requirements. Pass-through or blank modules can fill unused slots for later expansion.

Features

- DIN and Picatinny rail mounting for easy installation and automatic grounding
- Precise voltage limiting
- Grounding DIN rail (AT94030) for standalone data SPD applications
- Modules are stackable to accommodate any number of ports
- Automatic grounding to SemperLite (AT94xxx-xxDD or DP) and individual RackShield2 modules via DIN or Picatinny rail with adapter
- Solid State Technology
- Ten Year Warranty
- Made in USA

Mechanical Specifications

- Enclosure:** Durable, lightweight, corrosion resistant, rugged metal
- Dimensions (All Models, excluding cables & accessories):** 2.9" x 2.8" x 2.4" (74mm x 72mm x 62mm)
- Weight (All Models, excluding cables & accessories):** 2.8 lbs. (1.27 Kg)
- Mounting:** 35mm DIN rail/clip or Picatinny rail/clamp
- Operating Temperature:** -40°F to +158°F (-40°C to +70°C)



AT94020-D
2.9" x 2.8" x 2.4"
(74mm x 72mm x 62mm)
Industrial Grade Connection via DIN Rail



AT94020-P²
2.9" x 2.8" x 2.4"
(74mm x 72mm x 62mm)
Military Grade Connection via Picatinny Rail



Part Number	Type/Mounts	Mounts	Max. Surge Current per Line	Working Voltage	Let-Through Voltage	Bandwidth	Connectors
AT94020-D	Cat 6A PoE+	DIN Rail/Clips	1,000A	48V	60V	1,000MHz	RJ45
AT94020-P	Cat 6A PoE+	Picatinny Rail/Clamps	1,000A	48V	60V	1,000MHz	RJ45
AT94021-D	2 Wire Dial-up	DIN Rail/Clips	1,000A	170V	240V	-	RJ45
AT94021-P	2 Wire Dial-up	Picatinny Rail/Clamps	1,000A	170V	240V	-	RJ45
AT94030	Din Rail with 12 AWG Grounding Terminal Block						

¹ See page 2 for details.

² Requires Din2Pic adapter for use with RackShield2 modules

Semper4 Options

Semper4 devices can be customized with a combination of four different modules. Picatinny and DIN rail mounts can also be provided for attaching and sharing ground between additional ATS surge products. To specify the type of SemperLite you'd like to order, choose the features using the option codes below.

The example below shows how to create a part number for a Semper4 with four unshielded modules: Two Cat 6A PoE, one PassThru, and one T1 module, with Picatinny rail mounts.

AT94500-9 9 0 2 - P S

Series	Module 1	Module 2	Module 3	Module 4	Mounts	Shielding
All Styles from the Semper4 Series.	0 = PassThru 1 = 10/100 BaseT 2 = T1 3 = 2WireDialUp 4 = Cat5PoE 5 = Cat 6A 6 = RS232 7 = RS422 8 = 4W DialUp 9 = Cat 6A PoE	0 = PassThru 1 = 10/100 BaseT 2 = T1 3 = 2WireDialUp 4 = Cat5PoE 5 = Cat 6A 6 = RS232 7 = RS422 8 = 4W DialUp 9 = Cat 6A PoE	0 = PassThru 1 = 10/100 BaseT 2 = T1 3 = 2WireDialUp 4 = Cat5PoE 5 = Cat 6A 6 = RS232 7 = RS422 8 = 4W DialUp 9 = Cat 6A PoE	0 = PassThru 1 = 10/100 BaseT 2 = T1 3 = 2WireDialUp 4 = Cat5PoE 5 = Cat 6A 6 = RS232 7 = RS422 8 = 4W DialUp 9 = Cat 6A PoE	D = DIN rail and clips P = Picatinny rail and clamp	U = Unshielded S = All modules shielded

Multiple Semper4 devices can be daisy chained, sharing ground across all attached devices, to provide flexible installation sizes to fit all surge protection applications.



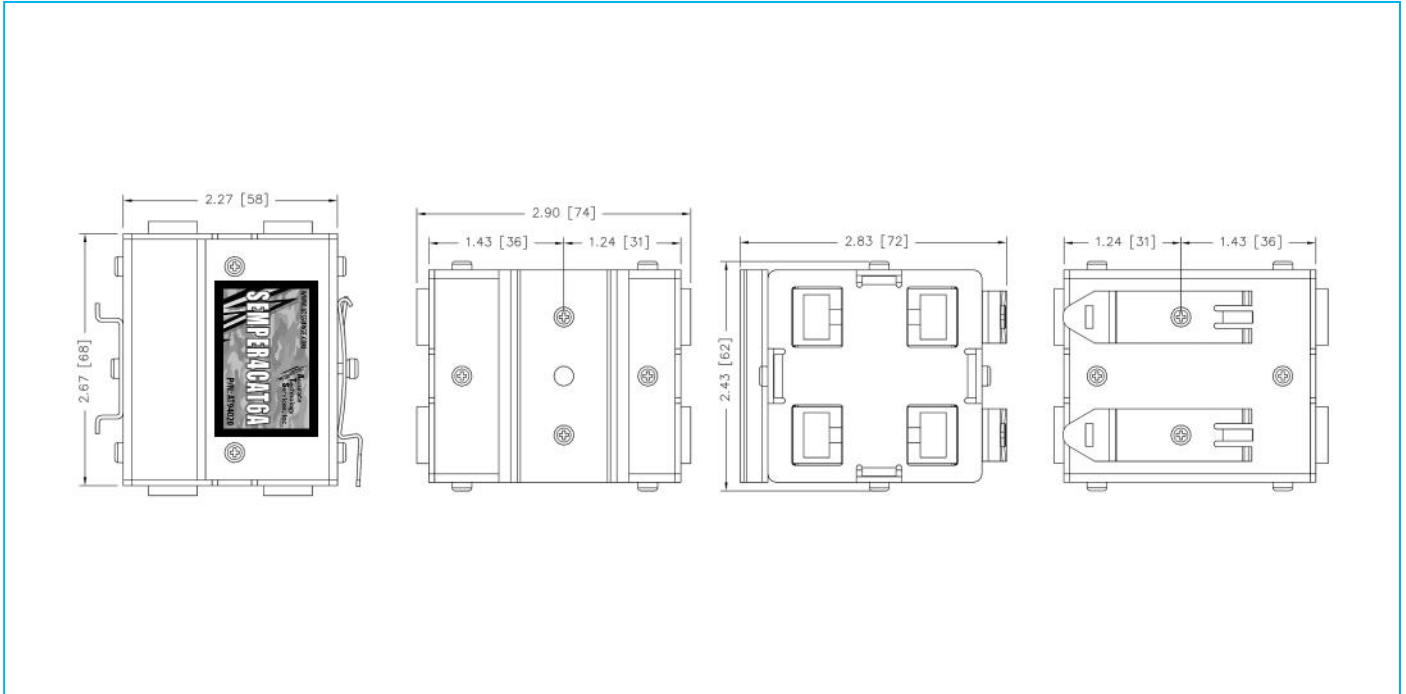
Compatible RackShield2 Modules

Part Number	Semper4 Unit*	Type	Maximum Surge current per line	Working Voltage	Let-through Voltage	Bandwidth	Connectors
AT25001	AT94020-10/100	10/100 BaseT	1,000A	5V	10V	155MHz	RJ45
AT25002	AT94020-T1	T1	1,000A	12V	27V	55MHz	RJ48C
AT25003	AT94020-PassThru	Pass Thru	—	—	—	—	RJ45
AT25005	AT94020-Cat5	Cat 5 PoE	1,000A	48V	60V	155MHz	RJ45
AT25006	AT94020-GbE	10/100/1000 BT	1,000A	5V	10V	1,000MHz	RJ45
AT25008	AT94020-RS232	RS232	1,000A	12V	27V	10MHz	RJ45
AT25009	AT94020-RS422	RS422	1,000A	5V	10V	15MHz	RJ45
AT25010	AT94021-4WDU	4 Wire Dial-up	1,000A	170V	240V	—	RJ45
AT25012	AT94020	Cat 6A PoE	1,000A	48V	60V	1,000MHz	RJ45
AT25015	AT94021-2WDU	2 Wire Dial-up	1,000A	170V	240V	—	RJ45

*Each Semper4 unit contains 4x ports of a single connector type

†Please see Page 2 for individual module information.

AT94020-D Dimensions



AT94020-D Dimensions

