



Tripp Lite
DataShield CSU/DSU Dataline Surge
Suppressor
Manufacturer Part# DSUT1CSU

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Summary

Protector for T-1 equipment, CSU/DSUs, digital and leased lines and ISDN "U" interfaces.

Abstract

Tripp Lite's DSUT1CSU offers complete surge suppression for equipment on digital and leased lines, T and ISDN interfaces. Ideal for the protection of sensitive "U" and "S/T" interfaces on modems, NT1 devices, CSU/DSUs, terminal adapters and other pieces of high-speed equipment. Convenient 8 position input/output RJ style jacks are RJ11/45/48 compatible, includes 5 inch ethernet patch cable for convenient placement at the protected device network connection. Surge suppression is handled with balanced arrays of high-speed avalanche diodes that divert excess energies created by electrostatic discharges, faulty wiring or lightning away from network interface connections. Tripp Lite network surge suppressors reduce blown interface ports, garbled network transmissions, system lock-ups and hard equipment failure by safely shunting dataline surges to ground. Six inch heavy gauge grounding lead connects to designated grounding lugs available on the back panel of most pieces of internetworking equipment. Lifetime warranty. SUPPRESSION : 1 set RJ11/45/48 in/out jacks, protects wires 1-8, 60V clamping

Product Specifications [Compare with other products.](#)

Product Name	DataShield CSU/DSU Dataline Surge Suppressor
Product Type	Surge Suppressor
Dataline Protection	RJ-45
Protection Type	<ul style="list-style-type: none"> ▶ Additional Dataline protection: Protects pins 1-8 of an 8 position RJ connector ▶ Max current: 200 amps ▶ Shunt capacity: <30pF
Additional Information	<ul style="list-style-type: none"> ▶ 6 inch heavy gauge grounding lead connects to designated grounding lugs on protected equipment

Owner's Manual

Network Dataline Surge Suppressors



Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE

Data Shield™ by Tripp Lite Network Dataline Surge Suppressors are designed to protect data and communications equipment against AC transients caused by lightning, electrostatic discharge and ground surges that can enter equipment from the signal lines or chassis ground.

Data Shield by Tripp Lite Network Dataline Surge Suppressors described here protect networked equipment using 100Base-T, 10Base-T, 10Base-2 and Ethernet, Token Ring, RS232, RS422, parallel, dial-up modems, fax, ISDN, DDS, T-1 and other communication interfaces.



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Note: Follow these instructions to ensure proper operation and prevent damage to this device and its connected equipment.

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INSTALLATION

1. Make sure the computer, network device or other equipment is logged OFF the network (if applicable). Turn OFF power to the equipment.
2. Disconnect the cable from the equipment to be protected.
3. Connect the Data Shield by Tripp Lite Network Dataline Surge Suppressor directly to the equipment. DB9 and DB25 models are reversible, to work with male or female ports. To change gender, remove the thumbscrews, reverse their direction and re-install.
4. Attach the green ground wire on the surge suppressor directly to the protected equipment's chassis. (Except DB9 and DB25 models.)
5. Reconnect the cable to the Data Shield by Tripp Lite Network Dataline Surge Suppressor.

NOTE!

The Data Shield by Tripp Lite Network Dataline Surge Suppressor must be properly grounded and positioned as close as possible to the equipment to be protected. For best results, it is required that the length of the signal line and ground wire (if equipped) between the surge suppressor and the protected equipment be kept as short as possible, not to exceed 12 inches (12"). It is best to install the surge suppressor directly to the equipment, as noted above.

NOTE!

Installing a typical Data Shield by Tripp Lite Network Dataline Surge Suppressor is equivalent to adding approximately three feet (3') of typical data communication cable to a segment.

CAUTION!

The Data Shield by Tripp Lite Network Dataline Surge Suppressor does not protect the equipment on the opposite end of the cable. Normally, protection at both ends is recommended.



CAUTION!

Use of this equipment in life support applications where failure of this equipment can reasonably be expected to cause the failure of the life support equipment or to significantly affect its safety or effectiveness is not recommended. Do not use this equipment in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.





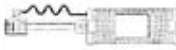

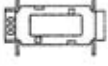



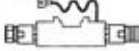
CAUTION!

When properly installed, the Data Shield by Tripp Lite Network Dataline Surge Suppressor will only protect against surges on the dataline portion of your installation. Simultaneous AC surge suppression/power protection in the form of an ISOBAR® surge suppressor or Tripp Lite UPS system is strongly recommended for complete system/network protection and can also extend Ultimate Lifetime Insurance coverage to connected equipment.



SPECIFICATIONS

All surge suppressors listed have component response times of less than 1 picosecond.

Model:	Description:	Nominal Clamping Voltage:	Peak Pulse Current:
DRS232 	RJ45/RJ11 protector for 100Base-T4, RS232 on twisted Pair (wires 1-8) or ISDN "S/T" interfaces. Supplied with a 4" RJ45 patch cable.	18 volts, protecting wires 1-8	1340 amps
DNET1 	RJ45 100Base-T, 10Base-T, Token Ring, RS422, AS400/Sys3x protector for NICs, hubs, routers, etc. Supplied with 4" RJ45 patch cable.	7.5 volts, protecting wires 1-8	750 amps
DSUT1CSU 	RJ45/RJ11 protector for nonspan powered T-1 equipment, digital data service CSUs/DSUs, ISDN "U" interfaces or other digital lines. Supplied with 4" RJ45 patch cable.	60 volts, protecting wires 1-8	200 amps
DTEL2 	RJ45/RJ11 for modems, answering and fax machines. Supplied with 4" RJ11 patch cable.	260 volts, protecting center 4 wires (2 CO-lines)	250 amps
DB9 	Serial DB9 RS232 protector for <u>male</u> or <u>female</u> ports of data terminal and computing equipment including PCs, modems, etc. (Any male or female 9-pin port). Male/Female genders are reversible with reversible thumbscrews.	18 volts, protecting pins 1-9 and chassis	340 amps
DB25 	Serial DB25 RS232 protector (wires 1-8, 20) for <u>male</u> or <u>female</u> ports of data terminal & computing equipment including PCs, printers, modems, etc. Male/Female genders are reversible with reversible thumbscrews.	18 volts, protecting pins 1-8, 20 and chassis	340 amps
DB25-ALL 	DB25-ALL: Serial DB25 RS232 protector (pins 1-25) for any 25-pin <u>male</u> or <u>female</u> DTE/DCE ports. Male/Female genders are reversible with reversible thumbscrews.	18 volts, protecting pins 1-25 and chassis	340 amps
D10B2 	10Base-2 thin coax protector (BNC m/f). Also protects IBM 3270 and CCTV lines.	7.5 volts, protecting center, shield and chassis	750 amps
DCATV 	Coaxial protector for TVs, VCRs, pro video supplied by CATV ("F" m/f).	7.5 volts, protecting center and shield conductors	750 amps

Call Tripp Lite Customer Support at (773) 869-1234 for additional applications.