USER MANUAL

MODEL 534
Ethernet AUI (DB-15)
Surge Protector





Part# 07M534-B Doc# 074021UB Revised 12/01/93 SALES OFFICE (301) 975-1000 TECHNICAL SUPPORT (301) 975-1007 http://www.patton.com

GENERAL INFORMATION

Thank you for your purchase of this Patton Electronics product. This product has been thoroughly inspected and tested and is warranted for One Year parts and labor. If any questions or problems arise during installation or use of this product, please do not hesitate to contact Patton Electronics Customer Service at (301) 975-1007.

FEATURES

- Connects easily to DB-15 Ethernet AUI ports
- Low insertion loss design won't hinder network performance
- Handles repeated surges without deteriorating in effectiveness
- Shunts surges to chassis ground via interface connection
- "Fail open" design protects hardware in case of severe overvoltage
- Made in the U.S.A.

DESCRIPTION

The Patton Model 534 connects directly to the DB-15 AUI port, and can handle repeated surges up to 200 amps (8 x 20 S.C. Waveform). Able to operate up to 10 Mbps, the Model 534 is designed to intercept data line transients before they can damage LAN equipment or cause major data corruption.

Housed in a miniature ABS plastic case (2.25" x 1.69" x 0.75"), the Model 534 incorporates a DB-15 male connector on one side, and a DB-15 female on the other. The male end plugs directly into the Ethernet AUI port, and the female end connects to a standard AUI cable. Surges *up to* 200 amps are shunted safely to chassis ground through both DB-15 connector shells. If the Model 534 encounters a surge *above* 200 amps, it will fail short (all signals sent to ground) to protect the connected equipment. With one Model 534 on each end of the cable, both connected Ethernet devices are protected against transients that travel along the AUI cable.

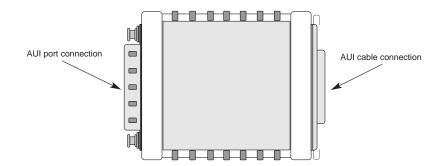
The Model 534 uses passive "low insertion loss" circuitry that incorporates Silicon Avalanche Diodes (SADs) as key components. Patton favors SADs because they do not deteriorate in performance with repeated use, as do MOVs. The "low insertion loss" design of the Model 534 prevents any noticeable degradation in network performance when the unit is installed.

Warning - Should your equipment or building be subject to a direct lightening strike, this product **will not** provide complete protection.

INSTALLATION

The Patton Model 534 is very easy to install: no special cables, batteries or grounding straps are needed. Simply unplug the DB-15 cable from the AUI port and insert the Model 534 between the cable and the port as shown in the diagram below (be sure to slide the connector locks over the locking pins to secure the connection).

Note: The Model 534 shunts surge current to chassis ground through the *DB-15 connector shells* on both ends. If you have any questions as to whether the AUI ports of your hardware are grounded properly, consult the manufacturer's user manual(s).



SPECIFICATIONS

Interface: Ethernet 802.3 Attachment Unit Interface

(AUI)

Maximum signal rate: 10 Mbps

Connectors: One male, one female DB-15

Wires Protected: 1, 2, 3, 4, 5, 6, 8, 9, 11, 12, 13 & 14 (pins 1,

4, 8, 11 and 14 are jumpered at both ends)

Peak Surge Current: 200A (8/20µs)

Clamp Voltage: 25V @ 100A, line to ground; 60V @ 100A,

line to shield (ratings apply to transient, non-

continuous current)

Grounding: Surge energy shunted to ground via

connector shells

Size: 2.25"L x 1.69"H x 0.75"W

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