

Bulletproof your network and PC system from damaging surges!

What do you do to prevent surges, spikes and lightning strikes on the utility line from damaging your valuable electronic equipment? You plug your equipment into an APC surge protector or Uninterruptible Power Supply (UPS) with built-in AC line surge suppression.

But, what do you do at the network, serial and telephone line interfaces?

The same lightning and surge events that cause damaging utility line transients, can also result in transients in the data cabling environment. To prevent surge voltages from sneaking around and reaching your equipment through the "back door," surge protection is also needed on the cables that are connected between your computer, modem, telephone, printer, and LAN equipment.

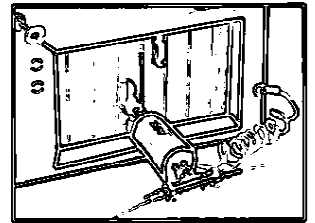
A surge protection plan incorporating data line and AC line surge suppression will "bulletproof" your system against the hazards of surges caused by lightning faults and electrostatic discharge (ESD).

Raise Your Power Protection Plan to a Higher Level

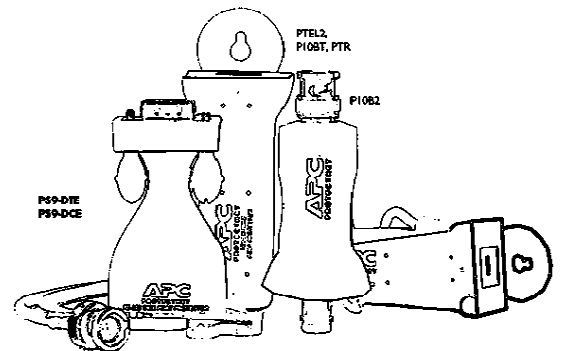
Your APC surge protector, voltage regulator or Uninterruptible Power Supply (UPS) will protect your equipment from power anomalies on the AC utility line. But for complete hardware and data protection against damaging surges, your power protection plan will have to go one step further.

A large part of overall, often unexplainable, surge damage can be attributed to non-AC line surge events. Burnt or damaged motherboards, modem/fax cards, serial ports, network interface cards and other LAN equipment are often times the victim of high-energy transients conducted to the interface port through data cables (*not* the AC utility line). The results are the same on either line: hardware damage, lost data, lost communications and the resulting cost of downtime associated with each.

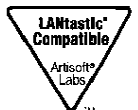
ProtectNet provides surge and lightning protection for telephone line, data line and network connections like Thinnet 10Base2 (above). Other models include ProtectNet for Ethernet 10Base-T, Token Ring UTP, RS-232 serial and RJ-11/RJ-45 telephone/modem connections.

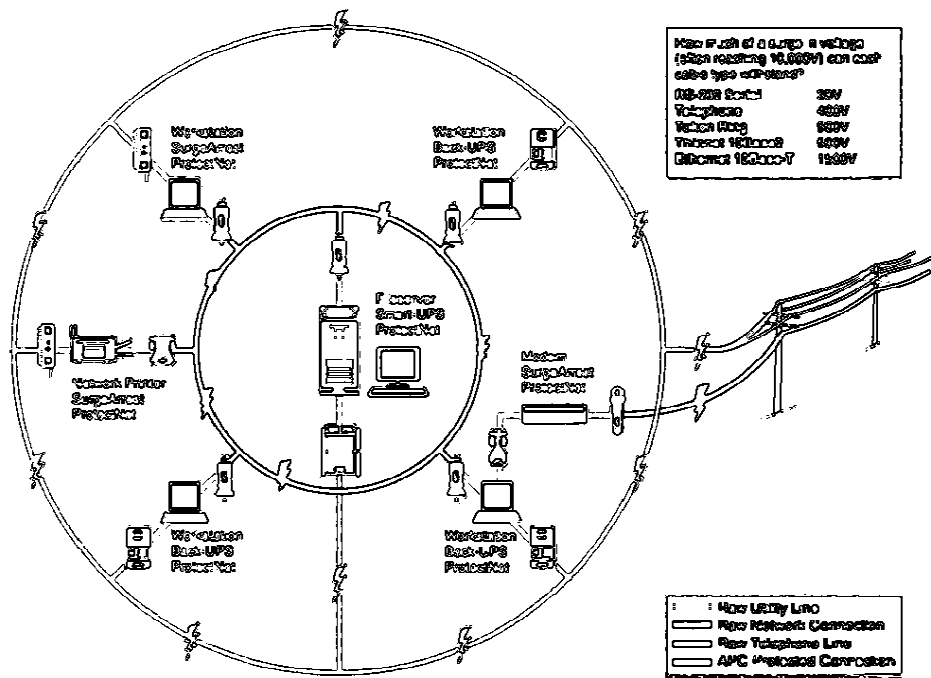


Data Line Surge Suppressors for Comprehensive Network and PC System Protection!



TM
ProtectNet





Data Communication Lines are Especially Susceptible to Surges

Due to the configuration of the RS-232 serial port, in which the ground (that drains high energy surge and fault currents) shares the same line as the data signal return, small transients of only tens of volts can destroy computer motherboards, printers and plotters via the serial port. Telephone lines conduct transients directly from the outdoor power lines. UTP and coax network interfaces conduct surge voltages from nearby lighting strikes and electrostatic discharge (ESD).

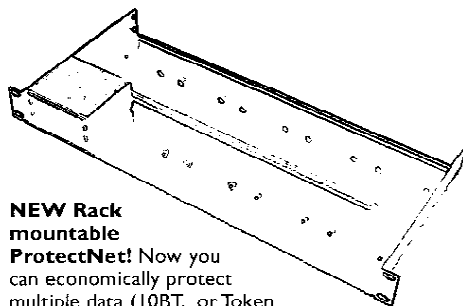
ProtectNet: An Integral Part of a Complete Power Protection Plan

Plug your network cable, telephone/modem line or serial cable into a ProtectNet surge protector, before plugging it into your equipment's network, telephone or serial port.

Incorporating ProtectNet data line surge suppression into your comprehensive power protection plan provides surge suppression on all potential paths to your computer equipment.

Now it is Easy to Protect Multiple Data Lines.

PNET4, for protection of 4 lines and rackmountable to 40 lines (20 front access, 20 rear access) of either 10BT, or Token Ring applications. PTE1.1-4 will offer the same type of solution for multiple single line (2 wire) phone/modem applications.

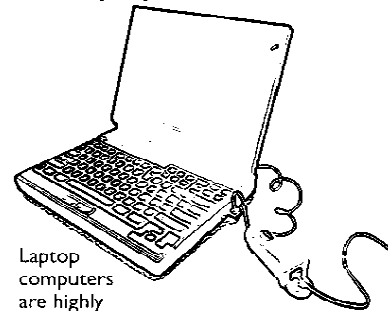


NEW Rack mountable ProtectNet! Now you can economically protect multiple data (10BT, or Token Ring) or phone/modem lines (1 line protection). Can also be stacked or wall mounted. (Product shown is PNET4 with PRM Rackmount Kit)

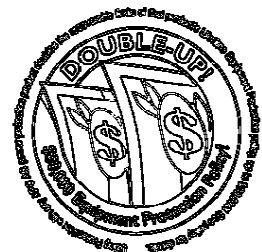
Transient power spikes or surges can be introduced into the network from various sources. The IEEE 802.3 Ethernet standard lists four electrical hazards which networks are susceptible to during use:

- Direct contact between local network components and power or lighting circuits
- Static charge buildup on local network cables and component
- High-energy transients coupled onto the local network cabling system (those induced by other cables which are installed in the general proximity of network cables)
- Potential differences between safety grounds to which various network components are connected (such as the slight differences which may be found in safety grounds from one building to another)

Don't forget about your laptop!



Laptop computers are highly susceptible to surges traveling along serial and modem lines right into the CPU. If you have an internal modem, you should protect this investment with an appropriate data line surge suppressor (PTEL2).

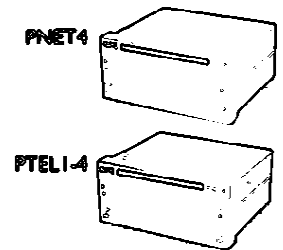
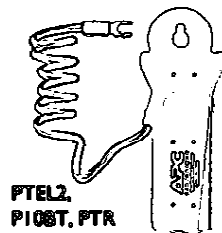
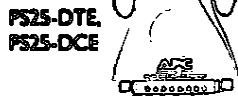
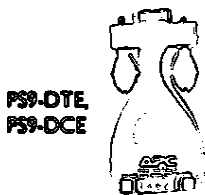


ProtectNet features a unique "Double Up!" Supplemental Equipment Protection Policy, under which the total recoverable limits of another APC AC product's Lifetime Equipment Protection policy is doubled! APC will then repair or replace properly connected and protected equipment in the unlikely event that it is damaged by a lightning strike or surge, up to \$50,000! (US and Canada only.)

* Source: LAN Times July 8, 1993
 ** See policy for details.

ProtectNet Model Name	APC Part Number	Application Description	Lines Protected	Peak Voltage	Breakover Voltage	Physical Size/Weight	Includes
9-pin serial port surge protector	PS9-DTE	protects serial DB-9 port of data terminal equipment and personal computers	1-9	±6000V*	30V peak nominal	3"x1.375"x0.6" 7.6x3.4x1.5 cm 0.125 lbs (56.7g)	
9-pin serial port surge protector	PS9-DCE	protects serial DB-9 port of data communications equipment like printers, plotters and modems	1-9	±6000V*	30V peak nominal	3"x1.375"x0.6" 7.6x3.4x1.5 cm 0.125 lbs (56.7g)	
RS-232 serial port surge protector	PS25-DTE	protects serial DB-25 port of data terminal equipment and personal computers	1-8, 20, 22	±6000V*	30V peak nominal	2.75"x2.25"x0.6" 6.9x5.7x1.5 cm 0.175 lbs (79.3g)	
RS-232 serial port surge protector	PS25-DCE	protects serial I/O port of data communications equipment like printers, plotters and modems	1-8, 20, 22	±6000V*	30V peak nominal	2.75"x2.25"x0.6" 6.9x5.7x1.5 cm 0.175 lbs (79.3g)	
2-line telephone surge protector (RJ11/RJ45 Type)	PTel2	protects telephone equipment such as fax machines, modems, and answering machines	4 and 5, 3 and 6 on RJ-45 connector	±6000V*	260V peak nominal	4.1"x1.5"x1.0" 10.4x3.8x2.5 cm 0.195 lbs (88.4g)	6ft. ext. cable, mounting fasteners
Ethernet 10Base-T network surge protector	P10BT	protects Ethernet 10 Base-T network interface cards, hubs or LAN equipment	1, 2, 3 and 6 on RJ-45/11 connector	±6000V*	8V peak nominal	4.1"x1.5"x1.0" 10.4x3.8x2.5 cm 0.19 lbs (86.2g)	patch cable, mounting fasteners
Token Ring network surge protector	PTR	protects Token Ring network interface cards, hubs or LAN equipment	4, 5, 3 and 6 on RJ-45 connector	±6000V*	8V peak nominal	4.1"x1.5"x1.0" 10.4x3.8x2.5 cm 0.19 lbs (86.2g)	patch cable, mounting fasteners
Thinnet 10Base-2 network surge protector	P10B2	protects Thinnet 10 Base-2 network interface cards, hubs or LAN equipment	center and shield conductors	±6000V*	8V peak nominal	3.4"x1.38" dia. 8.6x3.5 cm dia. 0.175 lbs (79.3g)	
4 outlet Ethernet Token Ring surge protector	PNET4	protects four (4) input lines (10BaseT, or Token Ring)	1-8 on RJ-45 connector	±6000V*	8V peak nominal	3.11"x3.49"x1.6" 7.9x8.8x4.1 cm 0.8 lbs (400g)	ground cable, patch cable; brackets for wallmount
4 outlet 1-line telephone surge protection	PTel1-4	protects four (4) input lines-Tel/Modem/Fax	4 and 5 on RJ-45/11 connector	±6000V*	260V peak nominal	3.11"x3.49"x1.6" 7.9x8.8x4.1 cm 0.8 lbs (400g)	ground cable; brackets for wallmount
ProtectNet 4 outlet rackshelf kit	PRM	19" rackshelf kit (20 lines 5 modules front access, 40 lines total)	NA	NA	NA	19"x8.375"x1.75" 48.2x21.2x4.4 cm 1.07 lbs (535g)	

* 1.250 us test waveform



GUARANTEED PROTECTION FOR EVERY APPLICATION!

There's a ProtectNet for Every Application!

Protect your network interface cards and other LAN equipment from surges and ESD caused transients with ProtectNet P10BT, P10B2, and PTR models designed for Ethernet 10Base-T, Thinnet 10Base2, and Token Ring network connections.

Protect the RS-232 serial port connection of your data communication equipment (DCE) like printers, plotters, and modems with the PS25-DCE or PS9-DCE ProtectNet models. For RS-232 serial port protection of your data terminal equipment (DTE) and personal

computers, use the PS25-DTE or PS9-DTE ProtectNet models. 25 pin and 9 pin model configurations are available in both DCE and DTE versions. ProtectNet serial port models are compliant with the EIA RS-232 signaling standard.

Protect your voice mail, answering machine, telex and fax machines, modems and other telephone equipment with the ProtectNet PTel2 model. The PTel2 provides 2-line (4-wire) telephone line surge protection. PTel2 accommodates both standard RJ-11 and RJ-45 telephone jacks and features a self-resetting fuse which makes it maintenance-free!

Guaranteed Protection!

With a lifetime product warranty, ProtectNet will be the last data line surge protector you will have to buy! What's more, the equipment that's protected is also covered! Under ProtectNet's unique "Double-Up!" program, you can double the Lifetime Equipment Protection policy limits provided by other APC AC power protection products. If all paths to your equipment are protected with APC products, this means that APC will repair or replace equipment damaged by a surge or lightning strike, up to \$50,000!*



US and Canada only.

APC

AMERICAN POWER CONVERSION

132 Fairgrounds Road,
W. Kingston, RI 02892 USA
Tel: (800)800-4APC US & Canada,
(401)789-5735 worldwide,
Fax: (401)789-3710.

CompuServe: GO APCSUPPORT
Internet: apctech@apcc.com
PowerPage: <http://www.apcc.com>

APC-European Offices
France Tel: (+33)1.64.62.59.50
France Fax: (+33)1.60.17.80.29
Germany Tel: (+49)89.958.23-5
UK Tel: (+44)753.511022
Ireland Tel: (+353)91.702000

