# Information Technology Systems
# SPDs for 19" Technology

## NET Protector - 16-way
## Surge Arrester

• Protects switches and HUBs
• Class D according to EN 50173 possible (Gigabit Ethernet)
• Units available with plug-in inputs and outputs for retrofitting

19" enclosure, equippable with surge protective boards for protection of network components (Class D).

19" enclosure, equippable with up to 3 surge protective boards for protection of active network components like HUBs and switches (Class D).
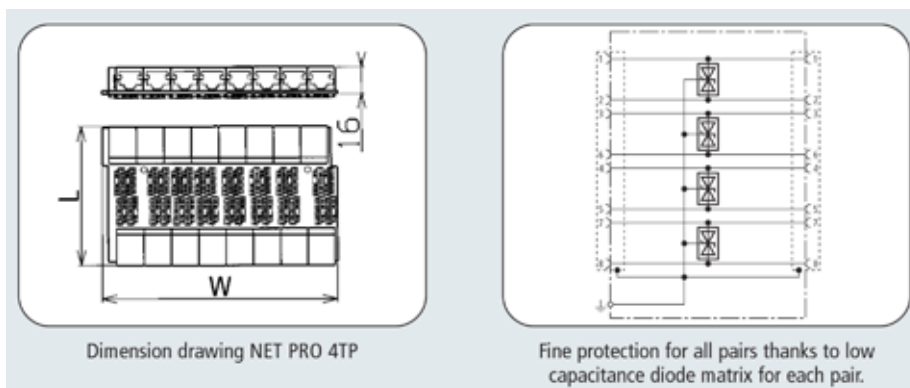
NET Protector requires space of only 1 vertical module and is mostly installed into 19" racks. It is inserted as a patch panel with surge protection or as a retrofitted device for patching between the patch panel and the device to be protected.

C00504



### NET PRO 4TP

• Low protection level for all lines
• For use according to the lightning protection zones concept at boundaries 1 - 2 and higher



Dimension drawing NET PRO 4TP

Fine protection for all pairs thanks to low capacitance diode matrix for each pair.

Fine protection board with 8 shielded ports for universal cablings (Class D). For universal use as protection for all 4 pairs (4 TP) is provided. To be installed into NET Protector 19" Enclosure and mounted into the distribution cabinet as a patch field or retrofitting unit.

## Technical Data

| | | NET PRO 4TP |
|---|---|---|
| Nominal voltage | $U_N$ | 5 V |
| Max. continuous dc voltage | $U_c$ | 6 V |
| Max. continuous ac voltage | $U_c$ | 4.2 V |
| Nominal current | $I_L$ | 100 mA |
| C2 Nominal discharge current (8/20) per port | $I_n$ | 2.4 kA |
| C2 Nominal discharge current (8/20) per line | $I_n$ | 0.3 kA |
| Voltage protection level line-line at $I_n$ C2 | $U_p$ | $\leq$ 35 V |
| Voltage protection level line-PG at $I_n$ C2 | $U_p$ | $\leq$ 35 V |
| Voltage protection level line-line at 1 kV/µs C3 | $U_p$ | $\leq$ 13 V |
| Voltage protection level line-PG at 1 kV/µs C3 | $U_p$ | $\leq$ 13 V |
| Bandwidth line-line at 100 Ohm | $f_G$ | 165 MHz |
| Insertion loss at 100 MHz | | < 0.4 dB |
| Capacity line-line C | | $\leq$ 35 pF |
| Capacity line-PG C | | $\leq$ 50 pF |
| Response time line-line | $t_a$ | $\leq$ 1 ns |
| Response time line-PG | $t_a$ | $\leq$ 1 ns |
| Operating temperature range | | - 40°C ... + 80°C |
| Degree of protection | | IP 00 |
| Mounting in | | enclosure |
| Connection input/output | | RJ45 shielded / RJ45 shielded |
| Pinning | | 1/2, 3/6, 4/5, 7/8 |
| Earthing via | | enclosure |
| Dimension | | 484 (440) x 82 x 45mm |
| Test standards | | VDE 0845-2, IEC 61643-21 |
| | | |
| | | |
| **Ordering information** | | |
| Type | | NET PRO 4TP |
| Part No. | | C00504 |
| Packing unit | | 1 pc(s) |

## Accessory Part for NET Protector

C00501

### Enclosure 19
Completely shielded empty enclosure for equipping to to 3 NET Protector protective boards.

| Type | EG NET PRO 19" |
|---|---|
| Dimension | 1 vertical module |
| Enclosure material | steel sheet metal |

| Type | PU pc(s) | Part No. |
|---|---|---|
| NET Protector 19" Enclosure | 1 | C00501 |