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## Rugged Industrial Fast Ethernet Switch Family

### PC/104 Plus Dual Fast-Ethernet Card with up to 8 Ports

MPL introduces a Fast-Ethernet Switch Family (SPIDERLAN) designed for the special requirements of Industrial market, even extended temperature versions ( $-40^{\circ}\text{C}$  up to  $+75^{\circ}\text{C}$ ) are available. The SPIDERLAN-family consists of four universal, high performance, compact and robust Ethernet modules. SPIDERLAN unifies up to two Fast-Ethernet Controllers on a single PC/104-Plus board. Each of the network controllers is combined with a complete 5 port layer-2 Ethernet switch system. So the board comes with up to eight fully independent operating 10/100BASE-TX ports.

SPIDERLAN is available as compact module with up to 8 x RJ45 connectors onboard, or with up to two separated Ethernet switch sub-modules for front panel assemblies, each with 4 x RJ45 connectors. Net to the SPIDERLAN family, Industrial Ethernet solutions without Switch system (LAN104) are also available (up to 2 x RJ45, Header oder MII interfaces).



#### Features

- High performance bus mastering for low CPU and bus utilisation.
- PCI specification 2.2 compliant
- 5 volt only power supply
- up to 2 integrated 5-port layer-2 Ethernet switch subsystems
- up to 8 (2x4) external 10/100BaseTX ports
- onboard RJ45 connectors, or separated external switch sub-modules
- IEEE: 802.3u autonegotiation 10/100 Mbps, half/full duplex operation
- Full duplex IEEE: 802.3x support
- MDI / MDI-X autocrossover functionality
- 2 LED indicators for each ports
- Optionally  $-40^{\circ}\text{C}$  up to  $+75^{\circ}\text{C}$

All these features and the special design make the SPIDERLAN family to the ideal solution for industrial network applications, like routers, firewalls, etc. The modules can be used with any PC/104-Plus System or with the well know CPU modules or Packaged Industrial PC's (PIP) from MPL.

All MPL products are produced and designed in Switzerland. MPL is a reliable partner to work with today as well as tomorrow. Further information about the SPIDERLAN or MPL are available via Fax, email ([info@mpl.ch](mailto:info@mpl.ch)) or on our Home Page ([www.mpl.ch](http://www.mpl.ch)).