The Advanced Micro Peripherals LANSwitch is an industry-standard multiport Ethernet Switch for use in harsh environments. It is produced on a rugged PC/104plus form factor.

The LANSwitch features a five-port 10/100Mbit switch with four external cable connections plus a built-in PCI Ethernet Controller.

The on-board Ethernet controller provides an additional standard Ethernet port for the PC/104plus host CPU that connects directly to one of the ports of the Ethernet switch.
Unlike an Ethernet hub which broadcasts all messages out of every port, the LANSwitch automatically detects and records where each Ethernet device is located and routes data direct to the appropriate port. This direct wire-speed switching eliminates data collision, significantly reduces unnecessary network traffic and can result in deterministic communications with attached Ethernet devices.

Applications

Multiple IP Camera Surveillance
Transportation
Heterogeneous Intra-Platform Network
Intelligent Sensors
Distributed and Cluster Computing
Real-time Networking Systems
LANSwitch

5-port Ethernet Switch on PC/104plus

The LANSwitch is ideal for networking intelligent sensors and multiple processing nodes as part of a tightly-integrated embedded system.

Features

5-port 10/100 Mbit Ethernet Switching
Compliant with IEEE802.3/802.3u auto-negotiation
Integral PCI 10/100Mbit Ethernet Controller
Compact PC/104plus Card
Single +5V operation

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LANSwitch

5-port Ethernet Switch on PC/104plus

Technical Specification

Ethernet Controller
10/100Mbit Ethernet Controller on PCI bus connected to internal port of switch

PC/104plus bus
Compliant with PCI Rev 2.2
132MBytes/sec bandwidth at 33.33MHz bus speed
PCI Bus Master/Slave

Host System Requirement
PC/104plus bus with one spare REQ/GNT
+5V or +3.3V signalling

Ethernet Switch
4 External Ports (to RJ45), 1 Internal Port
4 RJ45 sockets
10/100 MBit wire-speed switching
IEEE 802.3u auto-negotiation
Half/full duplex operation
Power saving modes

Miscellaneous
Single +5V power at less than 700mA
Operating Temp 0°C to 60°C (Std)
or -40°C to +85°C (Ext)

Software
Ethernet Controller Directly supported by all major OS including Windows/Linux
Ethernet Switch No external software required

Related products
Tiny886ULP Ultra Low Power PC/104plus Crusoe Computer
Tiny-LX Ultra Low Power LX800 Geode PCI-104 Embedded PC

Ordering Information
LANSwitch-1/4S LANSwitch (0°C to 60°C)
LANSwitch-1/4S-Ext LANSwitch (-40°C to +85°C)

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