

LANSwitch

5-port Ethernet Switch on PC/104plus



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

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.

Five

10/100Mbit Ports

including a

Built-in PCI

Ethernet

Controller

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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

Network Traffic

Minimized.

Data collision

eliminated.

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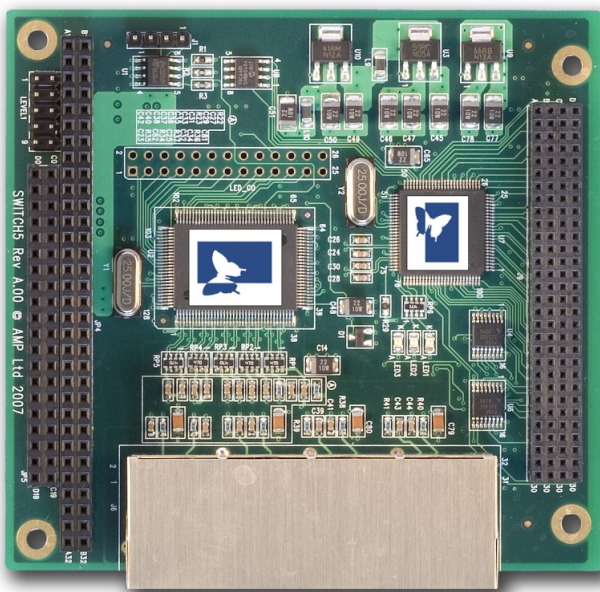
5-port Ethernet Switch on PC/104plus



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



LANSwitch

Ideal for
networking
multiple
intelligent
sensors

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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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)

