

## 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

**Advanced Micro Peripherals Ltd**  
Cambridge, CB6 2HY, England  
Tel (+44) 1353 659500  
Fax (+44) 1353 659600  
[sales@ampltd.com](mailto:sales@ampltd.com)  
<http://www.ampltd.com>

**Advanced Micro Peripherals Inc**  
New York, NY10001, USA  
Tel (+1) 212 951 7205  
Fax (+1) 212 951 7206  
[sales@amp-usa.com](mailto:sales@amp-usa.com)  
<http://www.amp-usa.com>



# LANSwitch

5-port Ethernet Switch on PC/104plus



**Advanced Micro  
Peripherals**

THE EMBEDDED VIDEO EXPERTS

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.

**Advanced Micro Peripherals Ltd**  
Cambridge, CB6 2HY, England  
Tel (+44) 1353 659500  
Fax (+44) 1353 659600  
[sales@ampltd.com](mailto:sales@ampltd.com)  
<http://www.ampltd.com>

**Advanced Micro Peripherals Inc**  
New York, NY10001, USA  
Tel (+1) 212 951 7205  
Fax (+1) 212 951 7206  
[sales@amp-usa.com](mailto:sales@amp-usa.com)  
<http://www.amp-usa.com>



# LANSwitch

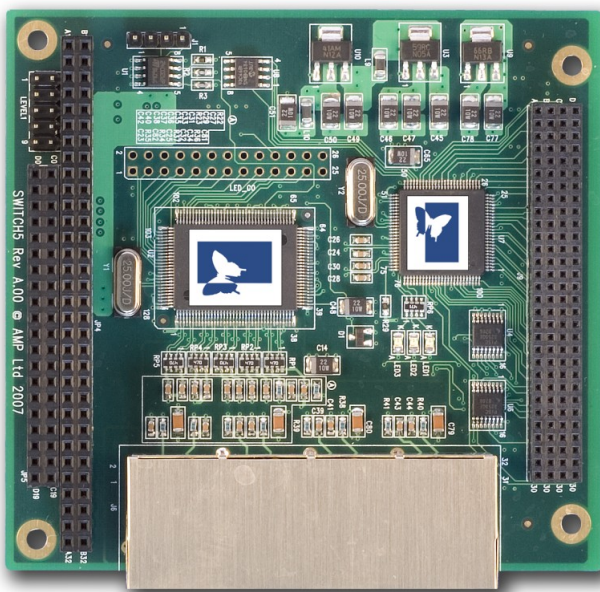
5-port Ethernet Switch on PC/104plus



**Advanced Micro  
Peripherals**

THE EMBEDDED VIDEO EXPERTS

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

**Advanced Micro Peripherals Ltd**  
Cambridge, CB6 2HY, England  
Tel (+44) 1353 659500  
Fax (+44) 1353 659600  
[sales@ampltd.com](mailto:sales@ampltd.com)  
<http://www.ampltd.com>

**Advanced Micro Peripherals Inc**  
New York, NY10001, USA  
Tel (+1) 212 951 7205  
Fax (+1) 212 951 7206  
[sales@amp-usa.com](mailto:sales@amp-usa.com)  
<http://www.amp-usa.com>



**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)

