Allied Telesis™

CentreCOM® IA810M

Fast Ethernet Layer 2 Industrial Managed Switch

The Allied Telesis IA810M switch is a cost-effective solution for industrial environments. It provides enduring performance in harsh environments, such as those found in manufacturing, transportation and physical security.

Robust design for industrial applications

The IA810M is ideal for industrial applications. With a wide operating temperature range of between 0°C and 60°C, it tolerates harsh and demanding environments, such as industrial and outdoor deployments.

Quality of Service (QoS)

The IA810M supports policy-based QoS by hardware processing, and various QoS functions such as IEEE 802.1p and DiffServ. By utilizing QoS, it is possible to preferentially send control data required for real-time performance, and thus improve communication quality.

Ethernet Protected Switching Ring (EPSR™)

The IA810M can be part of an EPSR™ high-speed ring-based network as a transit (aware) node.

Failure detection/notification and route switching information is forwarded immediately to minimize network downtime.

Loop detection

IA810M switches provide network loop detection using Loop Detection Frames (LDF). LDF detects network loops, and shuts down affected ports. After the loop is removed, the port that has shut down is automatically recovered.

Deployment options

The IA810M can be deployed stand-alone, or mounted vertically on a DIN rail system.

Key Features

▶ Quality of Service (QoS)

▶ Static Link Aggregation

▶ EPSR Transit (aware) mode

▶ Loop Detection Frames

▶ Flow Control

▶ Power Save mode

▶ Access Control Lists

Specifications

PRODUCT	10/100TX (RJ-45) COPPER PORTS	100FX (SC) PORTS	TOTAL PORTS	SWITCHING FABRIC	FORWARDING RATE
IA810M	8	2	10	2Gbps	1.488Mpps

Physical Specifications/Power Characteristics 24 VDC

PRODUCT	WIDTH X DEPTH X HEIGHT	WEIGHT	MAX POWER CONSUMPTION	MAX HEAT DISSIPATION	NOISE	PROTECTION RATE
IA810M	58 x 100 x 130 mm (2.28 x 3.94 x 5.12 in)	0.67 kg (1.48 lb)	7.5W	25.59 BTU/h	Fanless	IP30

Performance

▶ Packet Buffer   512Kbytes
▶ MAC address   8K entries
▶ Simultaneous VLANs   256
▶ VLANs ID range   1 – 4094

Support Functions

▶ Port based/tagged VLAN
▶ Multiple VLAN
▶ Spanning tree

▶ QoS
▶ EPSR aware
▶ Link Aggregation (static only)
▶ Port mirroring
▶ Port security
▶ Flow control (receive only)
▶ Packet storm protection
▶ LDF
▶ Ingress filtering
▶ HOL blocking prevention

▶ ACL
▶ IGMPv1/v2/v3 snooping
▶ BPDU/EAP forwarding
▶ DHCP client
▶ Log
▶ Script
▶ SNTP
▶ Power Save mode
▶ TFTP/FTP
▶ Web GUI

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Environmental Specifications

▶ Operating temperature range:
  Vertical locating: 0°C to 60°C (32°F to 140°F)
  Horizontal locating: 0°C to 50°C (32°F to 122°F)

▶ Storage temperature range:
  -20°C to 70°C (-4°F to 158°F)

▶ Operating humidity range:
  Less than 80% non-condensing

▶ Storage humidity range:
  5% to 95% non-condensing

Standards and Protocols

IEEE 802.3 10BASE-T
IEEE 802.3u 100BASE-TX, 100BASE-FX
IEEE 802.3x Flow Control
IEEE 802.3ad Link Aggregation Manual Configuration
IEEE 802.1D Spanning Tree STP Compatible
IEEE 802.1Q VLAN Tagging
IEEE 802.1p Class of Service, priority protocol
IEEE 802.1s Multiple Spanning Tree
IEEE 802.1w Rapid Spanning Tree

Electrical/Mechanical Approvals

Compliance Mark	CE, FCC, ICES, UL, VCCI
EMS	IEC61000-4-2
	IEC61000-4-3
	IEC61000-4-4
	IEC61000-4-5
	IEC61000-4-6
	IEC61000-4-8
Safety	EN60950-1
EMC	EN55024
	FCC Part15 Sub B
	ICES-003 Issue6
	VCCI Class A
	EN55032 Class A
International Protection	IEC60529 IP30
Stability Testing	IEC60068-2-27(Shock)
	IEC60068-2-6(Vibration)
	IEC60068-2-32(Free fall)

RoHS Compliance

EU RoHS

Ordering Information

AT-IA810M

L2 industrial managed switch with 8 10BASE-T/100BASE-TX ports and 2 100BASE-FX(SC) ports