



Dax DX-526 Series



Introduction

Dax DX-526 series is a 6-Port 10/100TX + 2-Port 100FX Industrial Switch with advanced SNMP functionality. The SNMP features are including MSTP, QinQ, QoS for 4 queues, 801.q VLAN, IGMP snooping and query mode as well as SNTP and SMTP.

DX-526 series supports X-Ring plus, fast network recovery scheme in less than 10ms over 250 switches. Couple Ring, Dual Ring ensure network recovery protection between X-Ring groups. Dual homing is to back up the X-Ring groups when connect to upper layer or core switch. Dax Industrial Switch's relay contact to Alarm system can immediately notify of Power failure and/or Port down events. In case of events, DX-526 series will immediately send an email to pre-defined addresses.

DX-526 series is designed to meet with critical network environment with IP 30 enclosure and test under extensive Industrial EMI and Safety standards. DX-526 series is the best to use in Automation, Transportation, Semi-conductor factory, Heavy Industrial factory and other factory assembly lines.



Key Features

- System Interface/Performance
 - Wide operating temperature (-40°C ~ 75°C)-E model
 - IP 30 case
 - DIN rail or Wall-mount installation
- Windows-base Utility for multiple switch monitoring & configuration (up to 20 switches)
 - Free bundle for topology drawing, auto discovery and configuration
- X-Ring Plus
 - X-Ring, Dual Homing, Couple Ring and Dual Ring Topology
 - Provide redundant backup feature and the recovery time below 10ms
- VLAN
- Port Trunk with LACP
- QoS (Quality of Service)
- Port Mirror: Monitor traffic in switched networks
 - TX Packet only
 - RX Packet only
 - Both of TX and RX Packet
- Security
- IGMP
 - Query mode for Multi Media Application
 - Support multicast filter
- Spanning Tree
- Support 802.1ab LLDP
- Bandwidth Control
 - Ingress Packet Filter and Egress Rate Limit
 - Broadcast/Multicast Packet Filter Control
- System Event Log
 - System Log Server/Client
 - SMTP e-mail Alert
 - Relay Alarm Output System Events
- SNMP Trap



Hardware Specifications:

Items	Dax DX-526 Series
Switch Architecture	Back-plane (Switching Fabric): 1.6Gbps Packet throughput ability (Full-Duplex): 2.38Mpps @64bytes
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port
Packet Buffer	1Mbits
Flash ROM	4Mbytes
DRAM	32Mbytes
Connector	10/100TX: 6 x RJ-45 with auto MDI/MDI-X function 100M fiber: 2 x SC/WDM type connector for single-mode or multi-mode type fiber cable RS-232 connector: RJ-45 type
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5/ 5E cable EIA/TIA-568 100-ohm (100m)
Optical Cable	Multi-mode: 50/125um~ 62.5/125um Single mode: 9/125um Available distance: 2km (Multi-mode)/30km (Single-mode) Wavelength: 1310nm (Multi-mode/Single-mode)
Protocol	CSMA/CD
LED Indicators	Per unit: Power (Green), Power 1 (Green), Power 2 (Green), Fault (Red), Master (Green) 6 10/100: Link/Activity (Green), Fullduplex/Collision (Yellow) Fiber: Link/Activity (Green)
Power Supply	DC 24~48V, Redundant power with polarity reverse protect function and removable terminal block.
Power Consumption	9 Watts
Operating Humidity	5% to 95% (Non-condensing)
Operating Temperature	Standard: -10°C~60°C; Wide Operating Temperature (-40°C ~75°C)*
Storage Temperature	-40°C to 85°C
Dimension	IP-30, 52mm (W) x 106mm (D) x 144mm (H)
EMI	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN-61000-4-4 (EFT), CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS), CE EN61000-4-8, CE EN61000-4-11,
Safety	CE/EN60950-1
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)

Software Specifications:

Management	SNMP v1 v2c, v3/ Web/Telnet/CLI Management
SNMP MIB	RFC 1215 Trap, RFC1213 MIBII, RFC 1157 SNMP MIB, RFC 1493 Bridge MIB, RFC 2674 VLAN MIB, RFC 1643 , RFC 1757, RSTP MIB, Private MIB
VLAN	Port Based VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP (256 Groups) Double tag VLAN (QinQ)
Port Trunk with LACP	LACP Port Trunk: 4 Trunk groups/Maximum 4 trunk members
LLDP	Support LLDP to allow switch to advise its identification and capability on the LAN
Spanning Tree	Support IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree IEEE802.1s Multiple Spanning Tree (option)
X-Ring	Support X-Ring, Dual Homing, Couple Ring and Dual Ring Topology. Provide redundant backup feature and the recovery time below 10ms
Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service
Class of Service	Support IEEE802.1p class of service, per port provides 4 priority queues
Port Security	Support 100 entries of MAC address for static MAC and another 100 for MAC filter
Mac Address Filtering	Up to 50 Mac address list to block the entry of switch
IGMP	Support IGMP snooping v1,v2 256 multicast groups and IGMP query Support multicast filter
IP Security	Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder.
Login Security	Support IEEE802.1X Authentication/RADIUS
Bandwidth Control	Support ingress packet filter and egress packet limit The egress rate control supports all of packet type and the limit rates are 100K~250Mbps Ingress filter packet type combination rules are Broadcast/Multicast/Unknown Unicast packet, Broadcast/Multicast packet, Broadcast packet only and all of packet. The packet filter rate can be set from 100k to 250Mbps
Flow Control	Support Flow Control for Full-duplex and Back Pressure for Half-duplex
System Log	Support System log record and remote system log server

Relay Alarm	Provides one relay output for port breakdown, power fail and alarm Alarm Relay current carry ability: 1A @ DC24V
SMTP	Support SMTP Server and 6 e-mail accounts for receiving event alert
SNMP Trap	Up to 3 Trap stations. Cold start, Port link up, Port link down, Authentication Failure, Private Trap for power status, Port Alarm configuration, Fault alarm, X-Ring topology change
DHCP	Provide DHCP Client/ DHCP Server/ IP Relay Functions
DNS	Provide DNS client feature and support Primary and Secondary DNS server.
SNTP	Support SNTP to synchronize system clock in Internet
Firmware Update	Support TFTP firmware update, TFTP backup and restore.
Configuration upload and download	Support binary configuration file for system quick installation Auto Provision for new firmware discovery
ifAlias	Each port allows importing 128bit of alphabetic string of word on SNMP and CLI interface.

Ordering Information

Dax DX-526MC-i: Layer 2 SNMP Managed Industrial switch with 6 # 10/100 Base T Ports and 2 # 100FX Multimode fiber ports, SC connector, Redundant DC power inputs, -10°C to 60°C operating temperature.

Dax DX-526SC-30-i: Layer 2 SNMP Managed Industrial switch with 6 # 10/100 Base T Ports and 2 # 100FX singlemode fiber ports, SC connector, 30km, Redundant DC power inputs, -10°C to 60°C operating temperature.

Dax DX-526MC-ie: Layer 2 SNMP Managed Industrial switch with 6 # 10/100 Base T Ports and 2 # 100FX Multimode fiber ports, SC connector, Redundant DC power inputs, -40°C to 75°C operating temperature.

Dax DX-526SC-30-ie: Layer 2 SNMP Managed Industrial switch with 6 # 10/100 Base T Ports and 2 # 100FX singlemode fiber ports, SC connector, 30km, Redundant DC power inputs, -40°C to 75°C operating temperature.



Dax DX-526 Series is brought to you by Dax (An Apcom Company) one of India's most renowned, technically qualified Data/Voice Networking Vendor. Dax offers an India-centric, diverse product range which conforms to the highest world-standards and meets the "edge to core" networking needs of all Verticals.

Dax is one of India's most respected OEM 'networking-infrastructure' vendors. Over the past 24 years, Dax has made country wide inroads through its national ADSPs (Authorized Dax Solution Partners) and Star Partners.

Dax is synonymous with high business ethics, consistent quality, optimized performance and support - commitment to Indian Customers which supersedes MNC standards. Our primary focus is to bring in world-class products to India to provide India-centric solutions that enable Indian organizations save their networking capital expenditure. Our years of commitment to quality and service, ensures our position amongst the Top-5 Networking Brands in India.

Other Dax Offerings:

<p>Access</p> <p>Routers</p> <p>Wireless</p> <p>LAN Extender</p> <p>Console & Device Servers</p>	<p>Connectivity</p> <p>Switches</p> <p>Cabling</p> <p>Interface Converters & Modems</p> <p>RAS & Serial I/O</p>	 <p>Dax Networks Limited</p> <p>No:11, 2nd Cross Street, Karpagam Gardens, Chennai- 600 020</p> <p>Ph: 044-4292 3558 Fax: 044-4292 3567</p> <p>Toll Free : 1800-4255-Dax</p> <p>E-mail: help@dax.in</p> <p>Website: www.daxnetworks.com</p> <p>An Apcom Company</p>
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