



Dax DX-1840E Series




Introduction

Dax DX-1840E series router offers high price performance solution that meets requirements of interoperability and delivers concurrent services of data/voice/video at optimal throughputs. DX-1840E series Modular Router provides a truly integrated solution enabling Maximum Uptime at the branch, flexibility in making network design connectivity with options on Ethernet, Serial or ISDN . This integrated platform provides highest price performance ratio enabling lowest cost of ownership. Being compliant with the industry standards, and interoperable with existing networks, the DX-1840E series router is the truly scalable and managed enterprise branch office business gateway.

DX-1840E series with its rich software features provides various physical WAN connectivity options.

Unmatched Routing Performance

DX-1840E series router delivers un-matched performance through its non-blocking and robust architecture with unparalleled backplane bandwidth in a single unit. DX-1840E series router supports advanced internet routing protocols RIP v1, v2, OSPF, BGP4, Netflow delivering a consistent performance of 300 Kpps.



The router supports multiple WAN interfaces such as Symmetric Leased Line using V.35, ISDN and ensures high uptime to stub network. Apart from link backup options the router also supports VRRP (Virtual Router Redundancy Protocol), router standby protocol for the redundancy of the unit, which can also offer device & link redundancy to the network.

QoS policies

DX-1840E series router provides unmatched Layer 4 QoS to utilize the bandwidth, ensuring optimal network performance. It also helps in classification, prioritization, traffic shaping, which offers reliable connectivity for enterprise applications including voice video and data. DX-1840E series Router supports various QoS features, congestion management queuing strategies such as PQ, CQ, FIFO, WFQ and CBWFQ, congestion avoidance strategies such as WRED and RED .

Using priority control, DX-1840E series router can discard non-conformant traffic in the network. DX-1800E series routers offer Traffic shaping to control traffic limit on each port. When traffic policing monitors various service levels, traffic shaping limits ingress and egress traffic on every port. Thus deploying this chassis exceeds the satisfaction of the user to achieve efficient and significant WAN requirements. Traffic shaping plays a dominant role especially.

Security

DX-1840E series Modular router supports Authentication, Authorization and Accounting (AAA) and also supports RADIUS authentication protocol. DX-1840E series routers support IPsec and multiple protocols such as L3TP, PPTP and GRE to guarantee complete network security service as well as network performance.

SSH offers high security and reliability through encrypted and authenticated communications. It allows data to exchange over a secure channel. It allows users to login to DX-1840E series routers through SSH client and execute the commands.

Time Based ACL

DX-1840E series routers provide a complete set of security through Expert level ACL. Time based ACL allow implementing access lists based on the time of the day. It permits user to create a time range that fixes specific times of the day and week. The time range is identified by a name and then by a function, so that those time restrictions are imposed on the function itself. DX-1840E allows user to have more control over permitting or denying access to resources.

Equipment Management Security

DX-1840E series routers encrypted login and remote management of switch over SSHv1/v2 to avoid potential threats resulting from transmission of management information in plain text.

They provide restriction over source IP addresses for Telnet/Web login to prevent illegal users from managing network equipment. SNMPV3 is supported to provide encryption and authentication, ensuring that the data are sent from valid data sources (engine ID); data are not tampered during transmission (by using MD5 and SHA authentication protocols); and packets are encrypted for confidentiality (by using the DES encryption protocol).

Interoperability

Interoperability being an important consideration, the DX-1840E series router adopts all major RFC standards and mainstream IEEE industrial standards for interoperability with third party vendors to ensure protection on investments.

Advanced Security

DX-1840E series router is enabled with stateful inspection firewall features and content filtering which includes URL filtering, Keyword filtering and domain filtering

Management

DX-1840E series router offer system management via various modes flexible for the end user to choose. The System can be managed and monitored via SNMP protocol through any computer using Network management Software or via a standard internet web browser. The switch also supports Industry standard Command Line Interface (CLI) for configuration via console or Telnet and SSH for secured remote management. RMON support is provided for effective network management.

DX-1840E series routers has SNMP v3 which provides network management and security by authenticating and encrypting packets and ensure that the packets are not damaged and collected securely from the router.

Hardware Specifications:

| Specification | DX-1840E | DX-1841-BE | DX-1843E |
|-------------------|------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Port | 1# Console Port | | |
| | 4# 10/100/1000M Gigabit Ethernet Routing Ports | | |
| | 1# USB Port | | |
| | 1# AUX Port | | |
| | Nil | 1 # fixed high-speed synchronous / asynchronous serial V.35 interface One ISDN BRI port S/T | 2 # fixed high-speed synchronous / asynchronous serial V.35 interface, One ISDN BRI port S/T interface |
| Throughput | 300 Kpps | | |
| SDRAM | 512 MB Upgradeable to 1 GB | | |
| Flash Memory | 256 MB upgradable to 512 MB | | |
| Power Supply | AC: 100~240V, 50~60Hz | | |
| Dimension (HxWxD) | 44mmx444mmx300mm | | |

Technical Specifications:

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| Data Link Layer | Frame Relay X.25 LAPB PPP Multilink PPP HDLC SDLC ISDN (BRI) Ethernet 802.1Q L2 Ethernet Switching MLFR |
| Routing | Static RIP v1/v2 OSPF v2 BGP-4 Redistribution LDP IS-IS MPLS DDR PBR Netflow |

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| Multicast Routing | IGMP v2 and v3 PIM –SM/DM/SSM DVMRP |
| IP Addressing | DHCP (Server/Client/Relay) Static |
| Security | AAA Radius TACACS+ Stateful Firewall NAT and PAT Failover Support MPLS VPN ACL(Standard, Extended) Time –based ACL PAP/CHAP IP Accounting ALG Support Link Based Load Sharing Provisioning and Real-time monitoring |
| VPN Features | IPSec DES,3DES,AES SHA-1,RSA and MD5 X.509 Certificate Auth. Support NAT-Traversal GRE, L2TP, PPTP SSLVPN IKE |
| Redundancy | VRRP Graceful Restart Redundant Interface Dual Software Images and Configuration Files Safe config rollback NAT fail over VPN fail over Firewall fail over |
| QoS | Policy and Shaping Flow Based Queuing Time Based QoS Low Latency Queuing Priority Queue(PQ) Weighted Fair Queue (WFQ) Class-Based Weighted Fair Queue(CBWFO) Random Early detection(RED) Weighted Random Early detection(WRED) Diffserv RSVP Compression of real-time packet headers Committed Rate Access (CAR) RTS,IP Precedence |

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|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Content Filtering | URL Filtering Keyword Filtering Domain Filtering |
| Intrusion Detection and Prevention | TCP and IP Reassembly Automatic Signature Updates Network Attack Detection Dos/DDos Protection |
| Network Management | CLI (through console/ telnet/ ssh) GUI for EMS/NMS SNMP V1/2/3 RMON Syslog SLA Monitoring Performance Measurements Real Time view of network and Historical Data Storage |

Ordering Information:


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| Dax DX-1840E | Integrated security Router with 4#10/100/1000 ports, one aux port, one USB port, AC power supply included. |
| Dax DX-1841-BE | Integrated security router with 4#10/100/1000 ports, 1 # fixed high-speed synchronous / asynchronous serial V.35 interface, One ISDN BRI port S/T interface, one aux port, one USB port AC power supply included. |
| Dax DX-1843E | Integrated security Router with 4#10/100/1000 ports, 2 # fixed high-speed synchronous / asynchronous serial V.35 interface, One ISDN BRI port S/T interface, one aux port, one USB port AC power supply included. |

Dax DX-1840E 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. In the last 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-3 Networking Brands in India.

Other Dax Offering:

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| <p>Access</p> <p>Routers</p> <p>Wireless</p> <p>LAN Extenders</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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