

DX-1821



DX-1821 Modular Router can provide SMB enterprises and branch offices of large enterprises with a good price performance solution so as to meet their requirements of interoperability and deliver concurrent services of voice, video and data at optimal throughput.

DX-1821 Modular Router adopts modular design to provide flexible module configurations, making it more convenient to replace modules on site. With secure and reliable performance, DX-1821 adapts itself for small-to-medium sized enterprises, LAN-to-LAN applications and multiple services.

High Port Density

The modular architecture of the DX-1821 integrated router allows variety of interfaces to be populated on a compact unit.

DX-1821 has one fixed sync/Async WAN interface (2Mbps), one open WAN slot for WAN Modules, one VoIP/ISDN slot, one console port and two 10/100Mbps Ethernet port. The DX-1821 allows mix and match of any available modules on a single Chassis. The encryption module can optionally be plugged into the Internal Bus Socket slot of the routing platform.

Security and Reliability

DX-1821 routers support IPSec and multiple protocols (such as L2TP and GRE) to guarantee comprehensive network security service as well as network performance. DX-1821 gives networks enhanced security to the network with the combination of IP packet filtering, Extended Access control list and Firewall.

High Network Availability

DX-1821 provides backup in multiple forms through ISDN or PSTN. The standard power supply module with CE certification can guarantee protection from surge, high-voltage, low-voltage and high current producing stable and reliable output.



Go Placidly

QoS functions

IP networks will be required to provide QoS to satisfy the ever-growing business demands. DX-1821 routers can provide guaranteed bandwidth for various network services, with provision for queue management (such as PQ, FIFO and WFQ) and scheduling. DX-1821 offers a cost effective multifunction service platform for small-to-medium-sized enterprise applications.

Support for legacy networks

With support for features such as SNA, XOT, the DX-1821 Router can transport data received from legacy devices over the IP network.

Bandwidth Optimization

DX-1821 supports WAN optimization features such as dial-on-demand routing (DDR), bandwidth-on-demand (BOD), compression, filtering, and spoofing, thus reducing WAN costs.

Robust Design

DX-1821 Router is a standard 19' anti-electromagnetic-radiation chassis, which can be placed on a standard rack. With anti-electromagnetic radiation, shockproof properties and resistance to high/low temperature , DX-1821 provides stable and reliable performance..

Features & Benefits

- High-performance and high-reliability
- Dialup-on-demand no-data hang-up
- VoIP Integration
- Flexible terminal access
- Perfect QoS mechanism
- IPv6 ready

Port Configuration

Model	10/100 Mbps Ethernet Port	Console Port	WAN Slot	VoIP/ ISDN Slot	Fixed High-Speed synchronous/asynchronous serial interface	SNA/ IPsec Jack
DX-1821	2	1	1	1	1	1

Hardware Specifications

Processor	High-speed RISC processor
Flash	8 MB
SDRAM	64 MB
Performance	70 Kpps
Dimensions (HxWxD)	44.5mm x 340mm x 230mm
Temperature	Operating: 0 ~40° C
Humidity	0%~90% non condensing
Power Supply	AC: Voltage: 100-240V , Current: 1A Frequency: 50/60Hz DC: -40 ~ -57V ,Current: 1.5A
Power Consumption	15 W (max.)
Weight	2.5 Kg (max)

Technical Specifications

<p>Link Protocols</p>	<p>Frame Relay PPPoE SLIP SDLC LLC2 QLLC LAPB HDLC X.25 PPP TCP/IP ISDN Ethernet_II Ethernet_SNAP 802.1q</p>
<p>Network Protocols</p>	<p>TCP/IP Internet Control Message Protocol (ICMP) Universal Data Gram protocol (UDP) FTP/TFTP RLOGIN DHCP HTTP DNS DDNS ARP DLSw Dial on Demand Routing (DDR) NAT Network Time Protocol (NTP)</p>
<p>QoS</p>	<p>Selective Packet Discard (SPD) Random Early detection Weighted Random Early detection (WRED) Committed Information Rate Committed Access Rate (CAR) First Input & First Output (FIFO) Weighted-Fair Queue (WFQ) Class-Based Weighted Fair Queue(CBWFQ) Priority Queue (PQ) Custom Queue (CQ) Fair Queue (FQ) LLQ RSVP Traffic shaping Policy based routing MPLS VPN MPLS label edge route function</p>

Routing Protocols	<ul style="list-style-type: none"> IPv4 / IPv6 Static Route RIP V1 /V2 OSPF V2 On Demand OSPF BGP4 DDR IRMP (Internal Routing Message Protocol) SNSP (Stub Networks Search Protocol) NDSP (Neighbor Device Search Protocol)
Multicast Routing Protocols	<ul style="list-style-type: none"> IGMP v1/v2 DVMRP MSDP PIM-SM/DM/SDM/SSM Policy route
Redundancy	<ul style="list-style-type: none"> VBRP (Virtual Back up Routing Protocol compatible with HSRP) VRRP (Virtual Router Redundancy Protocol)
Security	<ul style="list-style-type: none"> Standard and Extended ACLs PPP Encryption Authorization & accounting (PAP/CHAP, TACACS, RADIUS) Network Address Translation (NAT) IP packet filtering Firewall L2TP/L2TP v3 GRE tunneling IPSec VPN encryption IKE PKI CA MD5 Authentication / Encryption SSH v 1 and 2 Multiple Access Management
Enhanced Security (Encryption Module required)	<ul style="list-style-type: none"> Encryption (40bit & 56bit pay load) IPSec DES (64 bits) / 3DES (192 bits) / AES (128 /196 /256) IP SEC 3DES encryption performance up to 150 Mbps
WAN Optimization	<ul style="list-style-type: none"> Bandwidth on Demand Dial Back Up Dial On Demand Call Back Data Compression Queuing Traffic Prioritization Inactivity Timeouts

<p>WAN Optimization</p>	<p>Filtering DDR TCP Header compression TCP payload compression TCP Selective Acknowledge as per RFC2018 Frame Relay Per PVC compression Load balancing Filtering Snapshot Routing</p>
<p>Standards</p>	<p>IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet ITU standard H.323 ITU standard H.225 ITU standard H.245 ITU standard G.711 ITU standard G.729a/b ITU standard G.766 ITU standard G.728 ITU standard G.723.1 T.38 group 3 fax IP - RFC 791, 1812 PPP - RFC 1334, 1570, 1661, 1662, 1663, 1962, 1967, 1968, 1969, 1970, 1978, 1990, 1994, 2125, 2433 MLPPP - RFC 1990 XOT - RFC 1613 TCP - RFC 793, 2001, 1323 UDP - RFC 768 ICMP - RFC 792 IGMPv2 - RFC 2236 IGMPv3 - RFC 3376 ARP - RFC 826 RARP(inverse ARP) Proxy ARP RIP v1/v2 - RFC 1058, 2453 OSPF - RFC 2328, 1583, 1587, 1793, 2370 BGP4 - RFC 1771 RTP - RFC 1889, 1890, 2833 RTCP - RFC 1899 CHAP - RFC 1994 Radius - RFC 2138, 2139, 2865, 2866 NAT - RFC 1631 SLIP - RFC 1490 L2TP - RFC 2661 GRE - RFC 2890 VRRP - RFC 2338 VBRP - RFC 2281 SNTP - RFC 1769 Telnet - RFC 856, 857 IPSec/IKE - RFC 2401~ 2412, 2104, 2451, 2857, 3602</p>

Standards	<p>PKI – RFC 2459, 2510, 2511</p> <p>PPPoE - RFC 2516</p> <p>MPLS – RFC 2547, 3031, 3032, 3036</p> <p>SNMP v1 – RFC 1157</p> <p>SNMP v2 – RFC 1441, 1213, 1155, 1157, 1910, 1450, 2263</p> <p>DHCP Server – RFC 2131</p> <p>Frame Relay MIB – RFC 1315</p>
VoIP protocols	<p>H.323</p> <p>H.225</p> <p>H.245</p> <p>RTP/RTCP</p> <p>RTP Condensation</p>
Voice code	<p>T.38/T.30</p> <p>G.711A</p> <p>G.729</p> <p>G.729A/B</p> <p>G.723.1 (5.3/6.3K)</p> <p>SIP</p>
IP address configuration	<p>IP sub interface configuration</p> <p>Sub Networking</p> <p>CIDR (Classless Inter-Domain Routing)</p> <p>IP un-numbered</p> <p>Easy IP</p> <p>Port based VLAN</p> <p>Tagged VLAN</p> <p>Transparent Bridging</p>
Traffic Regulation	<p>Standard ACL to filter IP packets based on:</p> <p>Source / destination IP Address</p> <p>Extended ACL to filter IP packets based On:</p> <p>IP</p> <p>UDP</p> <p>TCP</p> <p>ICMP</p> <p>IGMP</p>
Trouble Shooting and Maintenance	<p>TFTP firmware upgrade</p> <p>Debugging</p> <p>Tracing of route packets</p> <p>Display of every interface</p>
Management	<p>Simple Network Management Protocol (SNMP v1/v2c/v3)</p> <p>SNMP MIB</p> <p>Syslog</p> <p>SSH v2</p> <p>Telnet</p> <p>Local management through router's console port</p> <p>DHCP server</p> <p>RMON</p>



Go Placidly

Ordering Information

Dax DX-1821	Modular Router with 2# 10/100Mbps port, 1# fixed sync/Async WAN interface(2Mbps) 1# open WAN slot for WAN Modules, 1# VoIP/ISDN slot, one console port,8MB Flash and 64 MB default SDRAM, 1# hardware encryption internal socket,AC power supply included
WAN Modules	
RM2-1SAE	1-Port High speed Serial (2 Mbps) Sync / Async WAN Interface module(V.24/V.35) (suitable for slot 1/2)
CAB-DB25FC-S-V35MT - 1 No.	V.35 Cable, M34 Male, DTE, cable for RM2-1SAE
RM2-1E1	1-Port E1 (G.703 Interface) Module (suitable for slot 1)
CAB-RJ45F-2BNCM - 1 No.	Cable for RM2-1CE1 /RM2-1E1
RM2-1STA	1-Port ISDN S/T WAN Interface Module
CAB-RJ11MS-RJ11M - 1 No	RJ11 Male Straight cable for RM2-1STA
RM2-1VOP	1-Port FXS Module (suits for MIM slot)
CAB-RJ11M-S-RJ11M - 1 No	Cable for RM2-1VOP
RM2-2VOP	2-Port FXS VOIP Module
CAB-RJ45M-OPEN - 2 Nos.	Cable for RM2-2VOP
RM2-1VOS	1-Port FXO Module
CAB-RJ11M-OPEN - 1 No	Cable for RM2-1VOS
RM2-2VOS	2-Port FXO VOIP Module
CAB-RJ45M-OPEN - 2 Nos.	Cable for RM2-2VOS
IPSec	
IPSec IOS	IPSec software, IPSec chip



Go Placidly

DX-1821 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 technology needs of all verticals. Dax is probably the most respected independent OEM supplier in India.

In the last 25 years, Dax has made wide country inroads through its Enterprise networking partners and national ADSPs. Dax is synonymous with high business ethics, consistent quality, optimized performance and support- commitment to Indian customers which supersedes MNC standards. Dax continues to synergistically work with Indian Customers to design products and networking solutions.

Today, Dax is the one of the **Top Networking companies** in India. We have achieved this status by a combination of relentless single-minded focus on cutting edge Networking technologies and a proud dedication (since 1986), to true professionalism.

Other Dax Offerings

<p>Access</p> <p>Routers Wireless LAN Extender Network Storage</p> <p style="text-align: right;">Attached</p>	<p>Connectivity</p> <p>Switches Cabling Interface Converters & Modems IP Surveillance</p>	 <p>Go Placidly</p> <p>Dax Networks Limited No: 11, 2nd Cross Street, Karpagam Gardens, Chennai – 600 020. Ph: 044-4292 3558 Fax: 044-4292 3567 E-mail: help@dax.in Website: www.daxnetworks.com An Apcom Company</p>
--	--	---