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# Refurbished CISCO C2801-SHDSL-V3-K9 Datasheet

CISCO > ROUTERS

## Cisco WAN Interface Cards

### G.SHDSL WICs with Cisco Access Routers Features and Benefits

| | |
|---|---|
| **Integrated Voice and Data Networking** | |
| **Voice and Data Integration** | Reduces long-distance toll charges by allowing the data network to carry interoffice voice and fax traffic<br>Works with existing handsets, key units, and private branch exchanges (PBXs), eliminating the need for a costly phone-equipment upgrade<br>Supports critical IP QoS features in Cisco IOS Software<br>Provides traffic management with ATM CoS |
| **Digital Voice Interfaces** | Provides toll-quality, award-winning derived VoIP; software-support VoIP/AAL5 and voice over ATM (VoATM)/AAL2 (Cisco 2800, 3800, 2600, and 3700 only); and AAL5 |
| **Analog Voice Interfaces** | Supports analog voice for VoATM/VoIP over AAL5 |
| **Standards-Based H.323 Signaling** | Allows an ecosystem of third-party vendors to develop applications for a complete solution; allows rapid low-cost deployment of VoIP |
| **Digital Signal Processors (DSPs) and Voice-Compression Codecs G.711, G.729a, G.723.1, and G.726** | Provide hardware-based compressed voice to fit significantly more voice lines over a single copper pair without breaking the end-to-end delay budget |
| **Modular Architecture** | |
| **Variety of WICs, Voice Interface Cards (VICs), and Network Modules** | Offers added flexibility and investment protection<br>Provides easy migration from Frame Relay or asymmetric DSL (ADSL) to SHDSL |
| **Security with VPN and Integrated Firewall** | |
| **Hardware-Based Encryption** | Helps enable creation of VPNs by providing industry-standard data privacy, integrity, and authenticity as data traverses the Internet or a shared public network<br>Offers hardware-based VPN encryption through onboard processor or Advanced Integration Module (AIM) VPN card |
| **Triple Digital Encryption Standard (3DES) IP Security (IPSec), Advanced Encryption Standard (AES), Generic Routing Encapsulation (GRE), Layer 2 Tunneling Protocol (L2TP), and Layer 2 Forwarding (L2F)** | Offers choice of standards-based tunneling methods to create VPNs for IP and non-IP traffic<br>Offers full interoperability with public certificate authorities and IPSec standards-based products<br>Constitutes part of the scalable Cisco end-to-end VPN solution portfolio |
| **Cisco IOS Firewall** | Cisco IOS Firewall includes context-based access control for dynamic firewall filtering, denial-of-service (DoS) detection and prevention, Java blocking, and real-time alerts<br>Allows internal users to access the Internet with secure, per-application-based, dynamic access control while preventing unauthorized Internet users from accessing the internal LAN |
| **Network Address Translation and Port Address Translation (NAT/PAT)** | Hides internal IP addresses from external networks<br>Prevents certain DoS attacks from outside networks<br>Allows multiple users access with a single IP address |
| **Password Authentication Protocol/ Challenge Handshake Authentication Protocol (PAP/CHAP), Microsoft CHAP (MS-CHAP), RADIUS, and TACACS+** | Supports all leading user identity verification schemes |
| **Route and Router Authentication** | Accepts routing table updates from only known routers, helping ensure that no corrupt information from unknown sources is received |
| **ATM Features** | |
| **ATM Traffic Unspecified Bit Rate (UBR), Non-Real-Time Variable Bit Rate (VBR-nrt), Real-Time Variable Bit Rate (VBR-rt), and Constant Bit Rate (CBR)** | Helps ensure QoS guarantees for real-time traffic, with ability to send traffic over the appropriate virtual circuit to provide ATM-level shaping and ensure that no head-of-line blocking occurs between circuits of different or equal traffic classes |

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| **with Traffic Shaping** | |
| **Up to 23 Virtual Circuits per WIC** | Helps enable more sessions at a time; is relevant for small and medium-sized businesses and small branch offices with 50 to 200 employees<br>Supports per-virtual circuit queuing in Cisco IOS Software releases 12.2(2)XK, 12.2(4)XL, 12.2(13)T, 12.2(8)YN, and subsequent releases (per-virtual circuit queuing not supported in Cisco IOS Software releases 12.2(4)T, 12.2(8)T1, or 12.2(11)T) |
| **Point-to-Point Protocol (PPP) over ATM** | Helps ensure compatibility with existing network |
| **F5 OAM Continuity Check (F5OAMCC) and Loopback** | Supported in Cisco IOS Software releases 12.2(4)XL, 12.2(11)T2, 12.2(8)YN, and subsequent releases |
| **Interim Local Management Interface (ILMI)** | Supported in Cisco IOS Software releases 12.2(4)XL, 12.2(13)T, 12.2(8)YN, and subsequent releases |
| **PPP over Ethernet Client** | Meets service provider requirements and eliminates the need for additional network software on LAN-connected client PCs |
| **RFC 2684 Routing** | Supports RFC 2684 Routing |
| **ATM Oversubscription for DSL** | Allows bandwidth oversubscription to be configured for VBR and UBR+ service classes<br>Supported in Cisco IOS Software releases starting with 12.4(2)XA; also available in Release 12.4(3rd)T and above |
| **Device Integration** | |
| **Integrated Router, Voice Gateway, Firewall, and VPN in a Single Device** | Reduces costs and simplifies management |

## Supported IP QoS Features

| | |
|---|---|
| **Classification and Marking** | Class-based marking with differentiated services code point (DSCP) (data only)<br>Committed access rate (CAR) with DSCP (Ingress-Ethernet/Fast Ethernet; Egress-G.SHDSL)<br>Dial-peer DSCP/IP Precedence marking |
| **Queuing and Scheduling** | Class-Based Weighted Fair Queuing (CBWFQ)<br>Low Latency Queuing (LLQ)<br>Driver per-virtual circuit queuing |
| **Congestion Avoidance** | Class-Based Weighted Random Early Detection (WRED) with DSCP (egress) |
| **Policing and Traffic Shaping** | Class-based policing<br>Per-ATM virtual circuit shaping for VBR-nrt<br>ATM cell loss priority (CLP) bit marking* |
| **Link Efficiency** | Tunable Tx ring buffer for values 2 through 601<br>Multilink PPP (MLPPP) link fragmentation and interleaving (LFI)<br>MLPPP with LLQ, CBWFQ, and other QoS features*<br>Compressed Real-Time Transport Protocol (cRTP)* |
| **Other (IP QoS)** | Local policy routing (LPR)<br>Policy-based routing (PBR)<br>IP QoS map to ATM CoS |

## Maximum Number of G.SHDSL WICs per Platform

| Platform | Maximum Number of G.SHDSL WICs |
|---|---|
| **Cisco 1721, 1751, and 1760** | 2 |
| **Cisco 1841** | 2 |
| **Cisco 2600XM** | 4 |
| **Cisco 2801** | 3 |
| **Cisco 2811 through Cisco 2851** | 4 |
| **Cisco 2691** | 5 |
| **Cisco 3725** | 7 |
| **Cisco 3745** | 11 |
| **Cisco 3825** | 8 |
| **Cisco 3845** | 12 |

| Hardware Specifications | |
|---|---|
| **G.SHDSL Chipset** | Conexant Chipset |
| **Dimensions (H x W x D)** | 0.75 x 3.08 x 4.38 in. ( (1.91 x 6.93 x 9.86 cm) |
| **Weight** | 2.4 oz (68g) |
| **LEDs** | CD (carrier detect)<br>LP (loopback)<br>OK (DSLSAR download complete) |
| **Ports** | Single RJ-11/RJ-14C connector |
| **Cabling** | RJ-11 line cord |
| **Network Equipment Building Standards (NEBS) Compliance** | Level 3 compliant (Type 2/4) |

## The next steps...

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