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## Overview

Cisco Integrated Services Routers offer a wide variety of WAN connectivity modules to accommodate the range of application needs in customer networks. The Cisco ADSL2 and ADSL2+ high-speed WAN interface cards (HWICs) deliver business-class asymmetric DSL (ADSL) services for customers ranging from small-to-medium sized businesses to enterprise branch offices. Both, 1-port and 2-port HWIC cards are available. While the 1-port HWIC card has an ADSL port, the 2-port HWIC card has an ISDN BRI backup port in addition to the ADSL port.

The ADSL HWICs provide 1-port ADSL connectivity to a WAN. These HWICs, combined with the Cisco 1941 Integrated Services Router (ISR), Cisco 1861 Integrated Services Router, the Cisco 2900 series Integrated Services Routers, 3900 series Integrated Services Routers (ISRs), 1841 ISR, 2800 and 3800 ISRs provide high-speed digital data transmission between customer premises equipment (CPE) and a central office. This enables service providers and resellers to offer additional services by supporting features for business-class security, voice integration, differentiated classes of service (CoS), and managed network access with Cisco IOS® Software. These value-added features, along with the manageability and reliability of Cisco IOS Software technology, provide the mission-critical networking that businesses require.

Both the 1-port and 2-port HWIC cards are supported on the Cisco 1841, 1861, 2801, 2811, 2821, 2851, 3825, 3845, 1941, 2901, 2911, 2921, 2951, 3925 and 3945 ISRs. The 1-port HWICs are supported starting with Cisco IOS Software Release 12.4(4)T and the 2-port HWICs are supported starting with Cisco IOS Software Release 12.4(6)T on the Cisco 1841, 1861, 2801, 2811, 2821, 2851, 3825, 3845 ISRs. The 1-port and 2-port HWICs are supported starting with Cisco IOS Software Release 15.0(1)M for 1941, 2901, 2911, 2921, 2951, 3925 and 3945 ISRs.

## Specification

General Information	
Manufacturer:	Cisco
Product ID:	HWIC-1ADSL
Product Description:	1-port ADSLoPOTS HWIC
Product Type:	HWIC
Marketing Information	
The new ADSL HWIC provide 1-port ADSL connectivity to a WAN. This HWIC, combined with the Cisco 1841 integrated services router (ISR) and the Cisco 2800 and 3800 series integrated services routers (ISRs), provide high-speed digital data transmission between customer premises equipment (CPE) and a central office. This enables service providers and resellers to offer additional services by supporting features for business-class security, voice integration, differentiated classes of service (CoS), and managed network access with Cisco IOS Software.	
Technical Information	
Application/Usage:	Wide Area Network
Interfaces/Ports	
Interfaces/Ports:	1 x RJ-11 ADSL WAN
Media & Performance	
Connectivity Media:	Twisted Pair

Data Transfer Rate:	<b>8 Mbps ADSL Downstream</b> <b>819.20 Kbps ADSL Upstream</b> <b>12 Mbps ADSL2 Downstream</b> <b>1 Mbps ADSL2 Upstream</b> <b>24 Mbps ADSL2+ Downstream</b> <b>1.50 Mbps ADSL2+ Upstream</b>
<b>Management &amp; Protocols</b>	
Management:	<b>Supports IP quality of service (QoS)</b>
<b>Environmental Conditions</b>	
Temperature:	<b>32°F (0°C) to 104°F (40°C) Operating</b> <b>-4°F (-20°C) to 149°F (65°C) Storage</b>
Humidity:	<b>10% to 90% Non-condensing Relative Humidity</b>
<b>Physical Characteristics</b>	
Dimensions:	<b>0.8" Height x 3.1" Width x 4.7" Depth</b>
Weight (Approximate):	<b>3.04 oz</b>
<b>Miscellaneous</b>	
Additional Information:	<ul style="list-style-type: none"> <li>· Supports ADSL over basic telephone service with Annex A ITU G. 992.1 (ADSL), G.992.3 (ADSL2), and G.992.5 (ADSL2+)</li> <li>· Supports reach-extended ADSL2 standard (G.992.3) Annex L</li> <li>· Complies with ANSI T1.413 issue 2</li> <li>· Supports ATM Adaptation Layer 5 (AAL5) services</li> <li>· Supports ATM CoS features constant bit rate (CBR), non-real-time variable bit rate (VBR-nrt), real-time variable bit rate (VBR-rt), and unspecified bit rate (UBR)</li> <li>· Supports up to 23 virtual circuits per HWIC</li> <li>· Supports Dying Gasp function</li> <li>· Interoperates with third-party DSLAMs</li> </ul>

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