

**HCL ADSL/ ADSL2/ ADSL2+ Router with four Ethernet ports, HCL-ARTR2+4FE**

*HCL ADSL2+ Router, HCL-ARTR2+4FE, is a DSL broadband access device, which allows ADSL connectivity for home or office users. It supports ADSL2/ADSL2+ and is backward compatible to ADSL, even offers auto-negotiation capability for different flavors (G.dmt, G.lite, or T1.413 Issue 2) according to central office DSLAM's settings (Digital Subscriber Line Access Multiplexer). Also the feature-rich routing functions are seamlessly integrated to ADSL service for existing corporate or home users. Now users can enjoy various bandwidth-consuming applications via HCL-ARTR2+4FE ADSL2+ Router.*

**Technical Specifications**

<ul style="list-style-type: none"> <li>● <b>ADSL Compliance</b></li> </ul>	<ul style="list-style-type: none"> <li>● ANSI T1.413 Issue 2</li> <li>● ITU G.992.1 Annex A (G.dmt)</li> <li>● ITU G.992.2 Annex A (G.lite)</li> <li>● ITU G.994.1 (G.hs)</li> <li>● Support dying gasp</li> <li>● Maximum Rate: 8 Mbps for downstream and 1 Mbps for upstream</li> </ul>
<ul style="list-style-type: none"> <li>● <b>ADSL 2 Compliance</b></li> </ul>	<ul style="list-style-type: none"> <li>● ITU G.992.3 Annex A (G.dmt.bis)</li> <li>● ITU G.992.4 Annex A (G.lite.bis)</li> <li>● Maximum Rate: 12 Mbps for downstream and 1.5 Mbps for upstream</li> </ul>
<ul style="list-style-type: none"> <li>● <b>ADSL 2+ Compliance</b></li> </ul>	<ul style="list-style-type: none"> <li>● ITU G.992.5 Annex A</li> <li>● Maximum Rate: 24 Mbps for downstream and 3 Mbps for upstream</li> </ul>
<ul style="list-style-type: none"> <li>● <b>ATM Features</b></li> </ul>	<ul style="list-style-type: none"> <li>● Compliant to ATM Forum UNI 3.1 / 4.0 Permanent Virtual Circuits (PVCs)</li> <li>● Support up to 16 PVCs for UBR, CBR, VBR-nrt, VBR-rt with traffic shaping</li> <li>● RFC2684 LLC Encapsulation and VC Multiplexing over AAL5</li> <li>● RFC2364 Point-to-Point Protocol (PPP) over AAL5</li> <li>● RFC2225 Classical IP and ARP over ATM</li> <li>● RFC2516 PPP over Ethernet: support Relay (Transparent Forwarding) and Client functions</li> </ul>

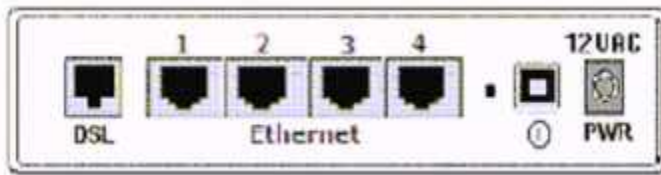
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	<ul style="list-style-type: none"> <li>• Support PPPoA or PPPoE Bridged mode (the IP address got from ISP can be passed to the user's PC and behave as the IP address of the user's PC.)</li> <li>• OAM F4/F5 End-to-End/Segment Loopback Cells</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Bridging Features</b></li> </ul>	<ul style="list-style-type: none"> <li>• Supports self-learning bridge specified in IEEE 802.1D Transparent Bridging</li> <li>• Supports up to 4096 learning MAC addresses</li> <li>• Transparent Bridging among 10/100 Mb Ethernet, USB.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Routing Features</b></li> </ul>	<ul style="list-style-type: none"> <li>• NAT (Network Address Translation) / PAT (Port Address Translation) let multiple users on the LAN to access the Internet for the cost of only one IP address.</li> <li>• ALGs (Application Level Gateways): such as NetMeeting, MSN Messenger, FTP, Quick Time, mIRC, Real Player, CuSeeMe, VPN pass-through with multiple sessions, etc.</li> <li>• Port Mapping: the users can setup multiple virtual servers (e.g., Web, FTP, Mail servers) on user's local network.</li> <li>• Support DMZ</li> <li>• UPnP IGD (Internet Gateway Device) with NAT traversal capability</li> <li>• Static routes, RFC1058 RIPv1, and RFC1723 RIPv2</li> <li>• DNS Relay, Dynamic DNS, DHCP Client/Relay/Server</li> <li>• Time protocol can be used to get current time from network time server.</li> <li>• Support IP/Bridge QoS for prioritize the transmission of different traffic classes</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Security Features</b></li> </ul>	<ul style="list-style-type: none"> <li>• PAP (RFC1334), CHAP (RFC1994), and MS-CHAP for PPP session</li> <li>• Firewall support IP packets filtering based on IP address/Port number/Protocol type</li> <li>• Support DoS (Deny of Services) which detect &amp; protect a number of attacks (such as SYN/FIN/RST Flood, Smurf, WinNuke, Echo Scan, Xmas Tree Scan, etc)</li> </ul>

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	<ul style="list-style-type: none"> <li>• Bridge packet filtering and URL filtering functions are optional and can be provided on demand.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Configuration and Management</b></li> </ul>	<ul style="list-style-type: none"> <li>• User-friendly embedded web configuration interface with password protection</li> <li>• Remote management access control</li> <li>• Telnet session for local or remote management</li> <li>• Firmware upgrades through HTTP or TFTP</li> <li>• The boot loader contains very simple web page to allow the users to update the run-time firmware image.</li> <li>• Configuration file backup and restore</li> <li>• SNMPv1/v2 agent with MIB-II, ADSL Line MIB</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Hardware Interface</b></li> </ul>	<ul style="list-style-type: none"> <li>• One RJ-11 port for ADSL connection</li> <li>• Four RJ-45 ports for IEEE 802.3/802.3u 10/100 Base-T auto-sensing and auto-crossover Ethernet connection</li> <li>• One hidden button for restoration of factory default settings</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Regulatory Approvals and Compliance</b></li> </ul>	<ul style="list-style-type: none"> <li>• EMC: FCC part 15 Class B, CE</li> <li>• Telecom: FCC part 68 Class B</li> <li>• Safety: UL, CB, LVD</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Power Requirement and Operation Environment Requirement</b></li> </ul>	<ul style="list-style-type: none"> <li>• Power Adapter: Input 110±10 or 230±10 VAC; Output 12VAC, 1A</li> <li>• Power Consumption: less than 10 Walt</li> <li>• Ambient Temperature: 0 to 40°C (32 to 96°F)</li> <li>• Relative Humidity: 20% to 90% (non-condensing)</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Physical</b></li> </ul>	<ul style="list-style-type: none"> <li>• 7 LEDs – Power, DSL, PPP, FE1, FE2, FE3, FE4</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Dimensions</b></li> </ul>	<ul style="list-style-type: none"> <li>• PCB: 152 mm x 113 mm</li> <li>• Housing: 190 mm (L) x 130 mm (W) x 40 mm (H)</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Weight</b></li> </ul>	<ul style="list-style-type: none"> <li>• 65g</li> </ul>

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**Ordering Information**

<i>Part Number</i>	<i>Description</i>
HCL-ARTR2+4FE	HCL ADSL/ ADSL2/ ADSL2+ Router with four Ethernet ports

**Contact Information**

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**\*\* Information subject to change at HCL' s discretion**