



DCE 7204A-NRD

Express Internet Access

The Data Connect 7204A-NRD is a wireless N router with wireless connection speeds up to 150Mbps with a built-in 4-port Ethernet switch that operates over an ADSL2/2+ circuit. Complying with worldwide ADSL standards, the DCE 7204A-NRD supports downstream data transmission rates up to 12/24 Mbps with ADSL2/2+, 8 Mbps with ADSL, and performs at upstream rates of up to 1 Mbps. Even more; the DCE 7404A-NRD includes Annex M technology that supports the latest ADSL2/2+ standard for higher upload speeds by increasing the upstream operation rate to approximately 2.5Mbps (up to 3Mbps under ideal conditions). With this technology, you can enjoy even higher-speed broadband multimedia applications such as interactive gaming, video streaming and real-time audios that run faster and easier than ever.

Robust Security and Smooth Data Transmission The NAT default firewall has an advanced anti-hacker pattern-filtering protection feature - Denial of Service (DoS) that can automatically detect and block hacker attacks. In addition, packet filtering features provides high-level security for access control. With Stateful Packet Inspection (SPI) feature, the router enables users to determine whether a data packet is allowed to pass through the firewall to the private LAN.

Built-in QoS engine enhances Internet experience Quality of Service (QoS) gives full control over outgoing data traffic. Priority can be assigned by the router to ensure that important transmissions like gaming packets, VoIP calls or IPTV / streaming content passes through the router at lightning speed, even when there is heavy Internet traffic. The VLAN support is also capable of establishing reliable high-speed transmissions for wide bandwidth applications such as IPTV, VOD, or online gaming without consuming bandwidth.

IPv6 Ready - Pathway to the Future

The DCE 7204A-NRD fully supports IPv6 (Internet Protocol Version 6), launched as the current IPv4 range is filling up, and IPv6 is gradually becoming the indispensable addressing system for savvy cloud computing users. Dual stack means the router is capable of running IPv4 and IPv6 in parallel during the transition period. With Billion IPv6 enabled devices, three major transition mechanisms such as Dual-Stack, DS-Lite and 6RD are supported to be adapted easily into service provider's IPv4/IPv6 network.

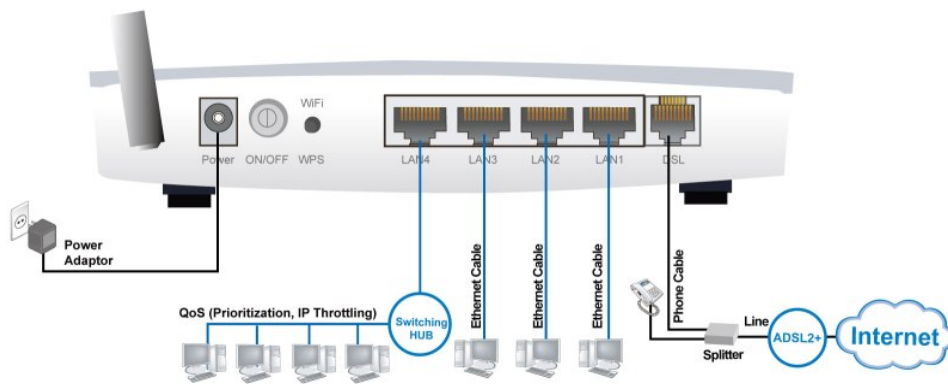


Features

- IPv6 ready (IPv4/IPv6 dual stack)
- DS-Lite and 6RD *2
- Wireless-N AP with Wi-Fi Protected Access (WPA-PSK/WPA2-PSK) and Wired Equivalent Privacy (WEP)
- Multiple wireless SSIDs with wireless guest access and client isolation
- High speed Internet access with ADSL2/2+; backward compatible with ADSL
- With 4-port Ethernet switches
- SOHO firewall security with DoS prevention and SPI
- Universal Plug and Play (UPnP)
- Supports Virtual Private Network (VPN) pass-through
- Quality of Service control
- Dynamic Domain Name System (DDNS)
- Easy network management (Easy Sign On, Quick Start Wizard and Web GUI permission)
- Supports IPTV application

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Features & Specifications

ADSL Compliance*1

- Compliant with ADSL2+ standards
 - G.dmt.bis plus (ITU G.992.5)
 - ADSL2+ Annex M (ITU G.992.5 Annex M)
- Compliant with ADSL2 standards
 - G.dmt.bis (ITU G.992.3)
 - ADSL2 Annex M (ITU G.992.3 Annex M)
- Compliant with ADSL standards
 - Full-rate ANSI T1.413 Issue 2
 - G.dmt (ITU G.992.1)
 - G.lite (ITU G.992.2)
 - G.hs (ITU G.994.1)
- Support G.inp (ITU G.998.4)

ATM Protocols

- ATM Adaptation Layer Type 5 (AAL5)
- Multiple protocol over AAL5 (RFC 2684, formerly RFC 1483)
- VC-based and LLC-based multiplexing
- Bridged or routed Ethernet encapsulation
- OAM F4/F5 loopback
- ATM QoS: UBR, CBR, VBR-rt, VBR-nrt

Network Protocols and Features

- PPPoE (RFC 2516), PPPoA (RFC 2364), DHCP Client, Static IP
- IPv4, IPv6, IPv4/IPv6 dual stack
- DS-Lite and 6RD*2
- NAT, static routing and RIP-1/2
- Virtual server and DMZ
- SNTP, DNS proxy
- Universal Plug and Play (UPnP) compliant
- Dynamic Domain Name System (DDNS)
- IGMP proxy and snooping
- MLD proxy and snooping

Quality of Service Control

- Traffic prioritization management based on MAC address, IP address, protocol and port number

Firewall

- Built-in NAT firewall
- Stateful Packet Inspection (SPI)
- Prevents DoS attacks including Land Attack, Ping of Death, etc.
- Access control
- MAC filtering, IP filtering, URL filtering
- Password protection for system management
- VPN pass-through

IPTV Application*3

- Virtual LAN (interface grouping)
- Quality of Service (QoS)
- IGMP proxy and snooping
- MLD proxy and snooping

Wireless LAN*4

- Based on wireless-N technology, and compliant with 802.11g, 802.11b standards
- Up to 150Mbps wireless operation rate
- 2.4GHz - 2.484GHz frequency range
- 64/128 bits WEP supported for encryption
- Wireless security with WPA-PSK/WPA2-PSK
- WPS (Wi-Fi Protected Setup) for easy setup
- Multiple wireless SSIDs
- Wireless client isolation

Management

- Quick start wizard
- Web-based GUI for remote and local management
- Web GUI permission
- Firmware upgrade and configuration data upload and download via web-based GUI
- Supports DHCP server/relay/client (WAN port)
- TR-069 (CWMP) supports remote management*5
- Supports SNMP
- Diagnostic tool

Hardware Specifications

Physical Interface

- DSL: ADSL port
- Ethernet: 4-port 10/100M auto-crossover (MDI/MDI-X) switch
- Factory default reset button
- Wireless on/off and WPS button
- Power jack
- Power switch
- WLAN: 1 fixed antenna

Physical Specifications

- Dimensions: 5.87" x 4.25" x 1.12" (149mm x 108mm x 28.5mm)

Power Requirements

- Input: 12V DC, 0.5A

Models & Supported Standards

- DCE 7204A-NRD A: Supports Annex A and Annex M (Annex A and Annex M: ADSL over POTS)

Operating Environment

- Operating temperature: 0°C - 40°C
- Storage temperature: -20°C - 70°C
- Humidity: 20% - 95% non-condensing

Notes:

1. This router may require firmware modification for certain ADSL2/2+/Annex M DSLAMs.
2. Only upon request for Telco/ISP tender projects.
3. IPTV application may require subscribing to IPTV services from a Telco/ISP.
4. Actual throughput and performance depends on the environment.
5. Only upon request for Telco/ISP Project.
6. Specifications on this datasheet are subject to change without prior notice.

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