

READYNET QX300 VOIP WIRELESS ROUTER

580MHz CPU, IEEE 802.11n Wi-Fi, FXS port for VoIP, and secure (HTTPS) remote management and provisioning make the ReadyNet QX300 an ideal solution for home and small business.

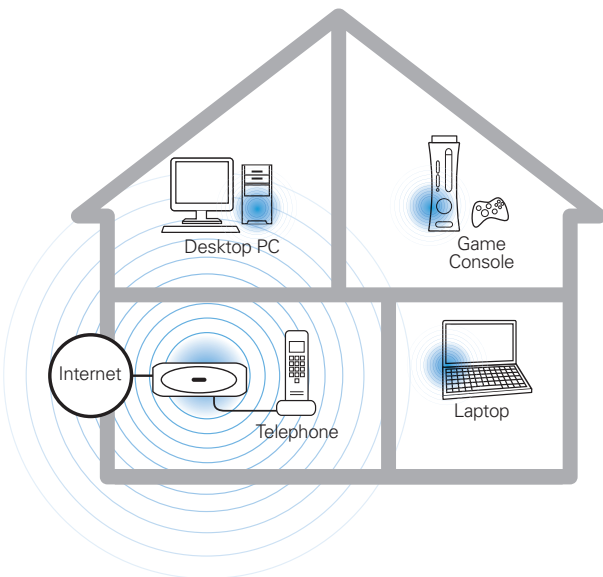
The ReadyNet QX300 VoIP Wireless Router combines Ethernet, wireless, and VoIP into a single, feature rich, cost effective solution. It is ideal for home users, home offices, and small offices. The ReadyNet QX300 not only provides high quality voice communications and wired Internet sharing capabilities, but also offers IEEE 802.11n wireless transmission speeds of up to 300Mbps.

With advanced router features including Quality of Service (QoS), the ReadyNet QX300 is able to make calls using SIP proxy voice communications. It uses the SIP V2 and 802.11n standards and is compatible with most service providers. It features 1 FXS telephone port, 2 fast Ethernet ports, and 1 Wireless N access point.



FEATURES

- 1 WAN and 1 LAN 100BASE-T RJ-45 Ethernet ports (IEEE 802.3)
- Hardware NAT (HNAT) engine with 100Mbps NAT/NAPT speed
- 802.11n - up to 300Mbps wireless
- 2x2 2.4GHz 802.11 b/g/n (300Mbps)
- One FXS port for VoIP (SIP) and T.38 Fax
- 3-way conference, call hold/forwarding/transfer/waiting
- 1 USB port for storage and printer
- Option 66, TFTP, HTTP, HTTPS and TR-069 for provisioning



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GENERAL SPECIFICATIONS

I/O Interface

- (1) RJ-45 10/100Mbps LAN port
- (1) RJ-45 10/100 WAN port
- (1) RJ-11 FXS port
- (1) USB port
- IEEE 802.11 b/g/n

Wireless Features

- 802.11 b/g/n support
- (4) SSID
- Static WEP (64/128bit)
- Dynamic WEP (64/128bit)
- AES (CCMP/TKIP)
- MAC certification
- WEP certification
- WPA-PAK/WPA-PSK (2.0)
- WPA/WPA2
- AP Isolation and MBSSID AP Isolation
- WMM
- WDS
- WPS
- Station list
- MAC Filter (different from wired MAC Filter)

Protocols

- SIP V2.0 (RFC 3261, 3262, 3263, 3264)
- Backward compatible with RFC2543
- Session timer (RFC4028)
- SDP (RFC2327)
- RTP/RTCP (RFC823/903)
- NAPTR for SIP URI lookup (RFC2915)
- STUN (RFC2030)
- ARP/RARP (RFC 826/903)
- SNTP (RFC 2030)
- DHCP/PPPoE
- HTTP Server for Web Management
- TFTP/HTTP for Auto Provisioning
- Message Waiting Indicator (RFC3842)
- DHCP Option Codes for SIP (RFC3361)
- DNS/DNS SRV (RFC1706 and RFC 2782)
- IEEE802.1Q VLAN/802.1p and IP DSCP

Management

- Firmware Upgrade
- Web Management Interface
- IVR-driven Management Interface
- Local and Remote Syslog (RFC3164)
- Auto Provisioning
- SNTP Time Synchronization
- Multi User Level
- SNMP v2
- Telnet
- TR-069
- System Log: local log and remote log

Audio Codec

- G.711 (A-Law, u-Law) with PESQ above 4.3
- G.729 with PESQ above 3.7
- Adaptive Jitter Buffer Management
- Voice Activity Detection
- Comfort Noise Generation
- Echo Cancellation
- T.30 FAX with G.711
- Real time FAX over IP via T.38

SIP Features

- 3-way conference
- Call hold
- Call forwarding
- Call Transfer
- Call waiting
- Caller ID and CWCID
- DTMF Relay: In-band, Out-band and SIP INFO
- QoS Layer 3
- Call Log
- CID/CWCID
- Dial Plan
- DTMF Mode: inband, outband and SIP Info

Applications

- Support NAT mode and Bridge mode
- Support DDNS
- MAC address cloning
- SIP proxy redundancy
- NAT Traversal by STUN
- Built-in Wired speed NAT Router
- DHCP Server and Client
- IP conflict detection
- Port Forwarding, DMZ, SuperDMZ
- 802.1Q VLAN/802.1p, DSCP, Rate Limiting
- VPN (PPTP, L2TP, IPSec) Passthrough
- SNTP
- IGMPv2
- Firewall (SYN Flooding, IP Spoofing, Smurf Attack, Ping of Death, DoS) Ethernet Features

VoIP SoC

- 580MHz single-core MIPS

Flash

- 16MB

RAM

- 64MB

Antenna

- Internal 3dBi antenna x 2 (2T2R MIMO technology)

Power

- AC/DC Adapter
- AC Input – 100-240V, 50-60Hz

RAM

- 64MB

Operating Temperature

- 5°C to 45°C ambient temperature

Storage Temperature

- 25°C to 85°C ambient temperature

Relative Humidity

- 10% to 90% non-condensing (operating)

Warranty

- 1 year