

MP-20x series

MP-202C Broadband VoIP Gateway and Wireless Router



- **Comprehensive VoIP Gateway for Voice over Broadband (VoBB) networks, ideal for Residential and SOHO use**
- **1-4 LAN ports with wireless (802.11 b/g) router, Firewall, NAT and advanced traffic prioritization mechanisms**
- **2 analog (FXS) ports for connecting phones or fax machines**
- **Mass deployment provisioning with TR-069 and remote provisioning**
- **Broad interoperability list with Softswitches and SIP Servers**

The **MP-202C** Broadband Wireless VoIP Gateway is a state-of-the-art, cost-effective, VoIP gateway, which allows the connection of home and SOHO IP networks, as well as ordinary analog telephones or fax machines to the Voice over Broadband (VoBB) service. As a member of the MP series of media gateways, the MP-202C series of Broadband VoIP Gateways are well-suited to operate with any standard SIP-based, commercial VoIP providers. Field-proven voice, fax and feature-rich technology enables Nuera's Broadband VoIP Gateways to be an ideal choice for Voice over Broadband (VoBB) service providers and operators.

Designed for Residential and SOHO IP Telephony

The MP-202C series was designed for the rapidly growing residential and Small Office/Home Office (SOHO) VoIP market. The MP-202C series typically connects to an existing Broadband Internet device (cable modem, DSL modem or fixed wireless), and establishes a communication link with the service provider network via its IP Uplink connection. Supporting a rich set of subscriber calling features such as caller ID, call forwarding, and call waiting (provided these features are supported by the telephones and service provider), the MP-202C series maintains a uniform user experience when migrating to VoIP services. In addition, the MP-202C series serves as a router and a wireless Access Point, supporting connectivity of home PC Networks (wired and wireless) and the Internet.

Benefits from Extensive Experience

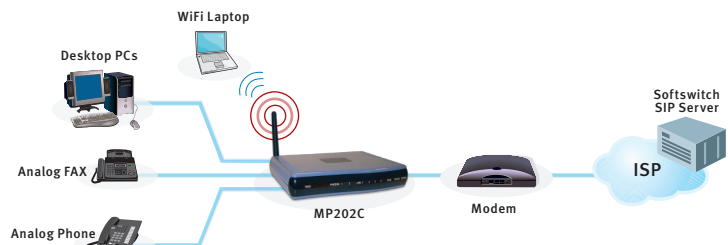
Utilizing the VoIPerfect™ software architecture, and gaining from its vast experience in providing IP telephony solutions, the MP-202C series combines superior voice quality and cutting-edge features for end users, such as T.38 Fax Relay and G.168 compliant Echo Cancellation. Low bit-rate vocoders (voice coders) can be used simultaneously on both telephony ports to conserve valuable bandwidth.

Interoperability

The MP-202C series is designed for interoperability with leading Softswitches and SIP servers for deployment in various network environments.

MP-202C Key Features

- 2 Phone (FXS) ports for connecting POTS phones or fax machines
- WAN and LAN Ethernet ports for internal routing and switching
- WiFi Access Point (802.11 b/g)
- Bridge mode or full router functionality with DHCP, NAT, Firewall and configurable routing logic
- Premium voice quality
- Prioritization of voice over data traffic ensuring voice quality
- TR-069 support for mass deployment provisioning



MP-20x Series

Specifications

| Available Configurations | |
|-----------------------------|---|
| MP-202C-A | 2 FXS Lines, 1 WAN port, 1 LAN port |
| MP-202C-R | 2 FXS lines, 1 WAN port, 4 LAN ports |
| MP-202C-W | 2 FXS lines, 1 WAN port, 4 LAN ports and Integrated 802.11b/g WiFi Access Point |
| Telephony Features | |
| Supplementary Features | Call Waiting, Call Hold, Call Transfer, Call Forward, Hot Line, 3-Way Conference with local mixing, Network 3-Way Conference, Do Not Disturb, Dialing Plan |
| Analog Signaling | Caller ID (Bellcore, ETSI, DTMF), MWI, Polarity Reversal, Distinctive Ringing DTMF Relay - RFC 2833, DTMF via SIP INFO Hook Flash - Local Processing or Relay Configurable Call Progress Tones (per country) |
| Media Processing | |
| Voice Coders | G.711µ/a-law, G.729A/B, G.723.1 |
| Fax | T.38, VBD (Voice Band Data), Bypass |
| Echo Cancellation | G.168 Full duplex echo canceler |
| Silence Suppression | VAD, CNG |
| Adaptive Jitter Buffer | 300 ms |
| Packetization | RTP/RTCP Packetization – RFC 3550, 3551 |
| Protocol Support | |
| VoIP Signaling Support | SIP over TCP/UDP – RFC 3261 SIP over TLS |
| Data Protocols and Features | IPv4, TCP, UDP, ICMP, ARP, RTP, RTCP 802.11 b/g wireless access point (MP-202C-W) PPPoE – RFC 2516, PPTP, L2TP DNS, Dynamic DNS, STUN IEEE 802.1p/Q (QoS & VLAN Tagging) ToS/Diffserv Layer 2 switching or WAN to LAN Layer 3 routing with: - DHCP Client/Server – RFC 2132 - RIP V1/V2 and static routing - NAT – RFC3022, Application Layer Gateway (ALG) - Voice over Data prioritization - QoS traffic shaping |
| Security Features | |
| General Security | SPI Firewall, URL filtering, Advanced Access Control, Denial of Service Prevention, Configuration File Encryption, Web Authentication, HTTPS provisioning |
| Wireless Security | RADIUS server (802.1x/WPA client Authentication), WPA, WPA2, WPA/WEP mixed mode, TKIP Encryption, MAC Filtering |
| SIP Security | SIPS (SIP over TLS) |
| Management | |
| Automated Provisioning | Software and Configuration upgrade via HTTP/HTTPS/FTTP/FTP |
| Administration | Web Server for Configuration and Management TR-069, TR-104, TR-111 Integrated SNMP agent CLI over Telnet Syslog support for debug and diagnostics |
| Physical Specifications | |
| Telephone Interfaces | 2 RJ-11 FXS ports |
| Network Interface | WAN/LAN 10/100 Base-T(RJ-45) , 1 (MP-202C-A) or 4 (MP-202C-R/W) LAN 10/100 Base-T (RJ-45), 802.11b/g WiFi (MP-202C-W) |
| Weight and Dimensions | MP-202C-A 223g 167.2x134x33.3 mm MP-202C-R 249g 167.2x134x33.3 mm MP-202C-W 263g 167.2x153x33.3 mm |
| Power | +12 VDC 1A External Power Adaptor, 110/220 VAC/50-60 Hz |
| LED Indications | Power, Status LED, Ethernet activity, Phone activity, WiFi LED LEDs indicating upgrade in process Softswitch Registration Status |
| Operating Temperature | 0° to 40°C |
| Storage Temperature | -25° to 70°C |
| Operating Humidity | 10% to 90% non-condensing |
| Storage Humidity | 10% to 90% non-condensing |

About Nuera Communications

Nuera Communications designs, manufactures & sells packet voice gateways to communication service providers worldwide. These products work over any medium (cable, wireless, copper and fiber). Nuera's ORCA (Open Reliable Communications Architecture) product portfolio of VoIP gateways, softswitches, and management systems provide telephony solutions for cable and DSL networks, international long distance networks and enterprise networks. Nuera is a leader in the broadband telephony market.

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