

ANALOG & DIGITAL MEDIA GATEWAY

Mediatrix C7 Series

Analog and BRI connectivity

BENEFITS

- High quality build and carrier-grade validation standards contribute to the industry's most reliable platform
- Extensive TR-069 support for easy management of large-scale deployments with a centralized EMS
- Superior call routing and manipulation capabilities for the implementation of complex deployment scenarios



The Mediatrix C7 Series gateways combine a VoIP Analog Adaptor and Media Gateway in a secure and reliable platform featuring FXS, FXO, and BRI interfaces. The Mediatrix C7 Series offers the most price effective solution for branch offices and SMBs, ensuring a simple and transparent connection to the PSTN and analog terminals such as telephones, modems, and fax machines. Mediatrix platforms are fully interoperable with the major IP-Phone manufacturers, softswitches, and Cloud Communications services across the globe.

Interconnect any device to SIP

The Mediatrix C7 Series links any analog connection to an IP network and delivers a rich feature set for a comprehensive VoIP solution.

Legacy PBX system gateway

With FXS, FXO, and BRI ports, local call switching, and user-defined call properties, the Mediatrix C7 Series smoothly integrates into legacy PBXs and incumbent PSTN networks.

Highly reliable Fax and Modem Transmission over IP

With T.38 and clear channel fax and modem pass-through capabilities, the Mediatrix C7 Series ensures seamless transport of voice and data services over IP networks.

Advanced Mass Management

Featuring advanced provisioning capabilities for a smooth integration into mass management systems, ensuring service and reducing operational costs.

APPLICATIONS

Operators

- Connect legacy equipment in PSTN replacement/TDM replacement projects
- Provide SIP termination for cloud telephony services
- Convert BRI ISDN signaling to SIP for SIP trunking
- Convert digital or analog signaling to SIP for Hosted Unified Communications and IP-Centrex
- Fully certified with BroadWorks UC platform

System Integrators

- Integrate Unified Communications with legacy systems
- Keep existing telephony equipment in SIP migrations
- Inter-connect branch offices to headquarters
- Survivability for branch offices in case of WAN failure
- Support high compression codecs saving valuable bandwidth

KEY FEATURES

Carrier-Grade Voice Quality

T.38 and clear channel fax over IP
High performance processing of up to 120 voice channels
Survivability for IP-Phones in Hosted UC/PBX deployments
Battery reversal for pay phones

Robust Security

Encrypted media and signaling
TLS encrypted provisioning

Easy Configuration and Management

Zero-touch configuration
Intuitive Web GUI
Customizable factory settings

Networking

Dual-stack IPv6 and IPv4
Multiple IP addresses and VLANs
NAT, firewall, and router

TECHNICAL SPECIFICATIONS

Mediatrix C7 Series

Media Processing

G.711, G.722, G723, G726, G.729a/b;
G.168 echo cancellation; DTMF detection and generation; Silence detection/suppression and comfort noise; Configurable de-jitter buffer and packet length; Packet loss concealment

IP Telephony

SIP 2.0 (RFC 3261, 3GPP); UDP, TCP, and TLS transport; RTP/RTCP (RFC 3550); SDP (RFC 4566); DTMF: InBand, OutOfBand (RFC 2833), SIP INFO; Multi-part body support; Redundancy support via DNS SRV; Multiple trunk support; Survivability for IP-Phones; IPv4 and IPv6 dual stack

Digital Telephony

Euro ISDN EDSS-1/ETSI BRI/NET3; ISDN speech, audio, and data (Fax Gr 4, UDI 64, and RDI 64); ECMA-143 (QSIG-BC); Advice of Charge AOC-D and AOC-E (ETS 300 182)

Analog Telephony

Call forward, call transfer; Call waiting, call hold; 3-way conference call; On-hook/off-hook Caller ID; Country tones presets; Customizable tones and ring patterns; Distinctive ringing; Message Waiting Indication (MWI); Music on Hold (MoH); Echo cancellation; Answer and disconnect signaling

Fax and Modem Support

Realtime T.38 fax; Clear channel (G.711) fax and modem pass-through

Quality of Service (QoS)

Bandwidth limitation and traffic shaping; TOS/DiffServ; IEEE 802.1p/Q

Call Routing

Local switching; Call filtering and blocking; Calling/called number manipulation using regular expressions; Routing criteria: Interface; Calling/called party number; Calling/called URI; Time of day, day of week, and date; Many others; Mapping and transformation of call properties to/from SIP headers; Hunt groups

Management

Zero-touch provisioning; TR-069, TR-104, and TR-111; Auto provisioning (FTP, TFTP, HTTP, HTTPS); Web GUI, SSH and TELNET; SNMP v1, v2c, and v3; Multiple levels of management access rights; Event notifications via Syslog, SIP, log file, and SNMP Traps; Dual firmware banks; Remote activation of service licenses

Monitoring and Troubleshooting

Alarms and traps; Call quality reporting (eMOS) (RTCP-XR as per RFC 6035); Call Details Record (CDR); Media quality statistics; System: CPU and memory usage; PCM capture; IP network capture; Diagnostic traces

Enhanced Security

Denial of Service (DoS) protection; SIP over TLS; SRTP with AES cipher - 128 bits; MIKEY key management protocol (RFC 3830 and 4567); SDP key management protocol (RFC 4568); TLS-encrypted configuration and management; X.509 certificate management; OCSP (Online Certificate Status Protocol) revocation status verification; TLS Version 1.3; Secure TLS ciphers like ECDHE with AES-256 and SHA-384

Networking

IPv4 - IPv6; Multiple IP addresses per link or VLAN; Multiple VLANs per link; DHCP client; DHCP Server; PPPoE (RFC 2516); IEEE 802.1q + DSCP QoS tagging (media, signaling, and mgmt); IEEE 802.1x wired authentication; LLDP-med (ANSI/TIA-1057); QoS traffic shaping; Firewall with stateful inspection, rate-limitation, and automatic blacklisting; Static routing; NAPT

Power Supply

External 100-240 VAC power supply

Physical Interfaces

2 x 10/100 Base-T Ethernet RJ-45 connectors; 2, 4 or 8 x RJ-48 BRI S/T connectors*; 4, or 8 x RJ-11 FXS connectors*; 4, or 8 x RJ-11 FXO connectors*; (*Depending on configuration)

Operating Environment

Operating temperature: 0°C to 45°C;
Storage temperature: -20°C to 70°C;
Humidity: up to 85%, non-condensing

Dimensions

Height: 4.4 cm; Width: 28.3 cm; Depth: 16.2 cm

A Trusted Partner

M5 Technologies is a global supplier of multimedia communication solutions, offering a complete set of IP-based products and technologies. With a focus on innovation and excellence in customer support, we deliver highly adaptive hardware and ready-to-market software components. This allows our customers and partners to take advantage of secure, reliable, and comprehensive communication solutions. Present in more than one hundred countries, M5 Technologies has its headquarters in Canada and local representatives in North and Latin America, Europe, and the Middle East.

For additional information, contact your M5 Technologies representative.

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