



Mediatrix® G7 Series

The Mediatrix G7 Series is a reliable and secure Media Gateway with VoIP Analog Adaptor capabilities for SMBs. Featuring E1/T1 PRI, ISDN BRI, FXS, and FXO interfaces; the Mediatrix G7 Series provides the best solution to connect legacy equipment to cloud telephony services and IP PBX systems to PSTN landlines.

Widely interoperable with SIP softswitch and IMS vendors, the Mediatrix G7 Series enable transparent integration of legacy PBX systems for SIP Trunking and PSTN replacement applications.



Interconnect any device to SIP

The Mediatrix G7 Series links any analog or digital connection to an IP network and delivers a rich feature set for a comprehensive VoIP solution.

Legacy PBX system gateway

With configurable E1/T1 PRI, ISDN BRI, FXS, and FXO ports, local call switching, and user-defined call properties, the Mediatrix G7 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 G7 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.

Mediatrix® G7 Series

Applications

Operators

- ✓ Connect legacy equipment in PSTN replacement/TDM replacement projects
- ✓ Provide SIP termination for cloud telephony services
- ✓ Convert ISDN or R2 signaling to SIP for SIP trunking
- ✓ Convert 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
5 ports Gigabit Ethernet

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

Technical Specifications

Media Processing

G.711, G.722, G.723, G.726, 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 PRI/NET5 BRI/NET3
ISDN NI-2 (US T1 PRI)
ISDN DMS100 (US T1 PRI)
ISDN 5ESS (US T1 PRI)
ISDN speech, audio, and data (Fax Gr 4, UDI 64, and RDI 64)
ECMA-143 (QSIG-BC)
E1 R2 digital line signaling (ITU-T Q.421)
E1 R2 MFC interregister signaling (ITU-T Q.441)
Presets for: Brazil, Argentina, Mexico, Saudi Arabia, Venezuela, Philippines, and ITU-T
T1/E1 E&M (Immediate, Wink-Start, Feature Group-B, and Feature Group-D), MF-R1, DTMF
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

RealtimeT.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)
SDS 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

Internal 100-240 VAC power supply

Physical Interfaces

5 x 10/100/1000 Base-T Ethernet RJ-45 connectors
2 x TDM sync RJ-45 connectors
1, 2, or 4 x RJ-48 E1/T1 connectors*
8 x RJ-48 BRI S/T connectors*
8 x RJ-11 FXS connectors*
4, or 24 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: 48.5 cm (with mounting brackets)
Depth: 19.5 cm
Weight: 3 kg



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, Media5 has its headquarters in Canada and local representatives in North and Latin America, Europe, and the Middle East.

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