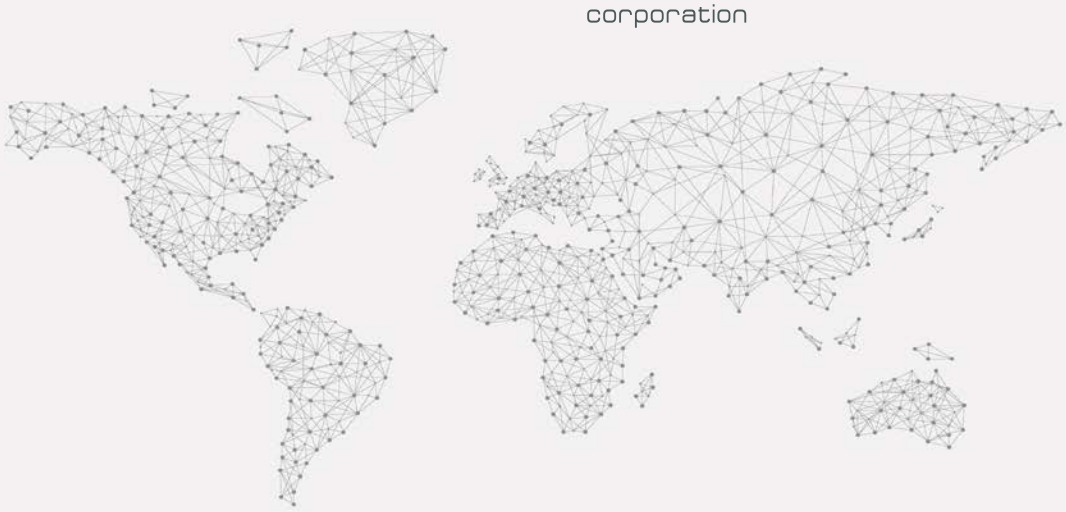
media5 corporation



Mediatrix® S7 Series

The Mediatrix S7 Series of analog VoIP adaptors (ATAs) offers the ability to smoothly connect all IP and legacy equipment to a hosted or on premise IP-PBX. It is also the ideal solution to connect traditional PBXs and phones to an IP core network without impacting current customer base.

The S7 allows operators and providers to use hybrid IP and analog telephone systems with a wide variety of cost-effective and easy-to-deploy applications including multi-tenant buildings, Hosted UC, and survivability for remote offices.

Interconnects any Device to IP

The Mediatrix S7 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 ports, local call switching, and user-defined call properties (including caller/calling ID), Mediatrix S7 Series gateways smoothly integrate into legacy PBXs.

Highly reliable Fax and Modem Transmissions over IP

With T.38 and clear channel fax and modem pass-through capabilities, the Mediatrix S7 Series ensures seamless transport of voice and data services over IP networks.

Advanced Mass Management

Our advanced provisioning capabilities deliver remarkable benefits to Mediatrix customers. Mediatrix enables centralised CPE management, a definite advantage to monitor the network, ensure service, and reduce operational costs.

Mediatrix® S7 Series

Applications

Operators

- ✓ Connect legacy equipment in PSTN replacement/TDM replacement projects
- ✓ Provide analog termination to cloud telephony services, Hosted Unified Communications, and IP-Centrex
- ✓ Facilitate the management for multi-tenant applications
- ✓ Fully certified with BroadWorks UC platform

System Integrators

- ✓ Integrate Unified Communications with legacy systems
- ✓ Connect Skype for Business and other IP-PBXs to legacy telephony equipment
- ✓ Inter-connect branch offices to headquarters
- ✓ Survivability for branch offices in case of WAN failure
- ✓ Reliable and cost-effective solution for hospitality and healthcare sectors
- ✓ 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 28 voice channels
3 way conference call and conference server support, collect call blocking, CCNR, and CCBS
Survivability for IP-Phones in Hosted UC/PBX deployments
Battery reversal for pay phones

Robust Security

Encrypted media, signaling, and management
Deep packet inspection firewall with DoS protection

Easy Configuration and Management

Zero-touch configuration
Intuitive Web GUI
Customisable factory settings

Networking

Dual-stack IPv6 and IPv4
Multiple IP addresses and VLANs
NAT, firewall, and router capabilities
5 ports Gigabit Ethernet

Benefits

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

Technical Specifications

Media Processing

G.711 (A-law and μ-law), G.722, G.726, and G.729a/b;
G.168 echo cancellation
DTMF detection and generation
Carrier tone detection and generation
Silence detection/suppression and comfort noise
Configurable de-jitter buffer and packet length
Packet loss concealment

Enhanced Security

Denial of Service (DoS) protection
SIP over TLS
SRTP with AES cipher – 128 bits
MIKEY key management protocol (RFC 3830 and 4567)
SDES key management protocol (RFC 4568)
TLS-encrypted configuration and management
X.509 certificate management
OCSP (Online Certificate Status Protocol) revocation status verification
TLS Version 1.2
Secure TLS ciphers like ECDHE with AES-256 and SHA-384

Management

Zero-touch provisioning
TR-069, TR-104, and TR-111
Web GUI
SSH and TELNET
SMNP v1, v2c, and v3
Scripts/firmware files uploaded via HTTP, HTTPS, FTP, and TFTP
Dual firmware banks
Multiple levels of management access rights
Customisable CDR
Event notifications via Syslog, SIP, log file, and SNMP traps
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

Quality of Service (QoS)

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

IP Telephony Protocol

SIP (RFC 3261) over UDP, TCP, and TLS
IMS (3GPP TS 24.229)
RTP (RFC 3550)
SDP (RFC 4566)
Multi-part body support
Redundancy support via DNS SRV
Multiple trunk support
Survivability for IP-Phones
IPv4 and IPv6 dual stack signaling and media

Analog Telephony

Support for call forward, call transfer, conference call, call waiting, CCNR, and CCBS
Multiple country presets
Customisable tones and ring patterns
Echo cancellation
Message Waiting Indication (MWI), via FSK and voltage (80v)
On-hook/off-hook caller ID generation (name & number) as per Bell-core DTMF or FSK and Telebras BINA
Answer and disconnect signaling

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

Fax and Modem Support

Group 3/super G3 fax real-time fax over IP
T.38 fax relay (9.6 k and 14.4 k)
Clear channel (G.711) fax and modem pass-through

Networking

IPv4 – IPv6
Multiple IP addresses per link or VLAN
Multiple VLANs per link
DHCP client
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 black-listing
Static routing
NAPT
DHCP Server

Physical Interfaces

5 x 10/100/1000 Base-T Ethernet RJ-45 connectors
2 x TDM sync RJ-45 connectors
4, 8, 12, 16, 20, or 24 x RJ-11 FXS connectors

Power Supply

Internal 100-240 VAC power supply

Dimensions

Height: 4.4 cm
Width (mounting brackets): 48.5 cm
Depth: 19.5 cm
Weight: 3Kg

Operating Environment

Operating temperature: 0°C to 40°C
Storage temperature: -20°C to 70°C
Humidity: up to 85%, non-condensing

Analog Ports	✓ Up to 24 FXS
Mounting	Rack
Network	5 x 10/100/1000 Base-T
Survivability	✓

This datasheet applies to model: M.

A Trusted Partner

Media5 Corporation 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.

For additional information, contact your Media5 representative.

media5corp.com | sales@media5corp.com