



Mediatrix[®] S7 LP Series

The Mediatrix S7 LP is the leading ATA to deploy cloud telephony services for demanding wiring conditions and over-voltage exposure applications.

The Mediatrix S7 LP features long haul FXS ports, lightning protection, outstanding voice quality, rich telephony functionalities, easy deployment and provisioning, advanced security, and superior performance. These make the Mediatrix S7 LP the ideal solution for the hospitality sector, campuses, transport infrastructures, large facilities, and buildings far away from one another.



Interconnects any Device to SIP

The Mediatrix S7 LP 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 LP 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 LP 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 LP 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
- ✓ Connect neighborhoods, campuses, and other demanding wiring conditions
- ✓ 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
- ✓ Keep existing POTS and fax equipment in SIP migrations
- ✓ Survivability for branch offices in case of WAN failure
- ✓ Reliable and cost-effective solution for hospitality and healthcare sectors
- ✓ Meet requirements for large buildings, outdoor deployments, and over-voltage exposure applications

Key Features

Carrier-Grade Voice Quality

Short and long loop support
T.38 and clear channel fax over IP
High performance processing of up to 28 voice channels
Integrated secondary surge protection
Support up to 60 Vrms ringing voltage
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.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

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
Supported TLS key exchange mechanism:

- RSA
- Diffie-Hellman

Supported TLS ciphers (minimum):

- AES (128 and 256 bits)
- 3DES (168 bits)

Management

Zero-touch provisioning
TR-069, TR-104, and TR-111
Web GUI
SSH and TELNET
SNMP v1, v2c, and v3
Scripts/firmware files uploaded via HTTP, HTTPS, FTP, and TFTP
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 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
RTCP-XR – special order

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
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

Dimensions

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

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

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	✓
Long Loop	✓

This datasheet applies to model: M.



Media5 Corporation is a global supplier of multimedia communication solutions, offering a complete set of SIP-based products and technologies.

With a focus on innovation and excellence in customer support, we deliver highly adaptive hardware and software components as well as ready-to-market SoftClients. This allows our customers and partners to take advantage of secure, reliable, and comprehensive communication solutions.

Mediatrrix access devices include a complete set of VoIP Adaptors, Media Gateways, and Session Border Controllers customer premise equipment to connect any network to cloud telephony services.

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For additional information, contact your Media5 representative.

media5corp.com | sales@media5corp.com