



Mediatix[®] S7 Series

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



Interconnect any device to SIP

The Mediatix 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, the Mediatix S7 Series smoothly integrates into legacy PBXs.

Highly reliable Fax and Modem Transmission over IP

With T.38 and clear channel fax and modem pass-through capabilities, the Mediatix S7 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.

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Applications

Operators

- ✓ Connect legacy equipment in PSTN replacement/TDM replacement projects
- ✓ Provide SIP termination for cloud telephony services
- ✓ 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
- ✓ 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
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, 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

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
16, or 24 x RJ-11 FXS connectors

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

Media5 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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