

ANALOG TELEPHONE ADAPTER

Mediatrix 4102S

2 FXS analog ports

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



4102 family illustration

The Mediatrix 4102S is a VoIP Analog Adaptor that interconnects analog telephones, faxes, and modems into SIP based systems. This ATA allows operators to shorten deployment time and ensure a highly secure environment to enable cloud telephony services into branch offices and SMBs. 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 4102S 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 Mediatrix 4102S 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 Mediatrix 4102S 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 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
- 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 4 voice channels
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 4102S

Media Processing

G.711 (A and μ), G.726, and 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; 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

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

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; Remote activation of service
licenses

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

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 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: 3.1 cm; Width: 12.7 cm; Depth: 9.9
cm; Weight: 170 g

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.

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