

Mediatrix[®] 4102

The Mediatrix 4102 is a VoIP 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 ATAs are fully certified with Broadsoft softswitches and BroadCloud and are compatible with Skype for Business.



Interconnects any Device to SIP

The Mediatrix 4102 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 userdefined call properties (including caller/calling ID), the Mediatrix 4102 smoothly integrates 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 4102 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.

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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

System Integrators

- Integrate Unified Communications with legacy systems
- Connect Skype for Business with legacy telephony equipment
- Keep existing telephony equipment in SIP migrations
- Inter-connect branch offices to headquarters

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, 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

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

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 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

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 SMNP 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

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

Quality of Service (QoS)

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

Operating Environment

Operating temperature: 0°C to 45°C Storage temperature: -20°C to 70°C Humidity: up to 85%, non-condensing

Power Supply External 100-240 VAC power supply

Physical Interfaces

2 x 10/100 Base-T Ethernet RJ-45 connectors

Dimensions

3.1 x 12.7 x 9.9 cm approx.; 170 g

Analog Ports	2 FXS
Mounting	Desktop or wall
Network	2 x 10/100 Base-T



Mediatrix 4102 - Front



Mediatrix 4102 - Back



Media5 Corporation is a global supplier of multimedia communication solutions, offering a complete set of SIPbased 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.

Mediatrix 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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