apa III-4

CONNECT WITH
IP TELEPHONY

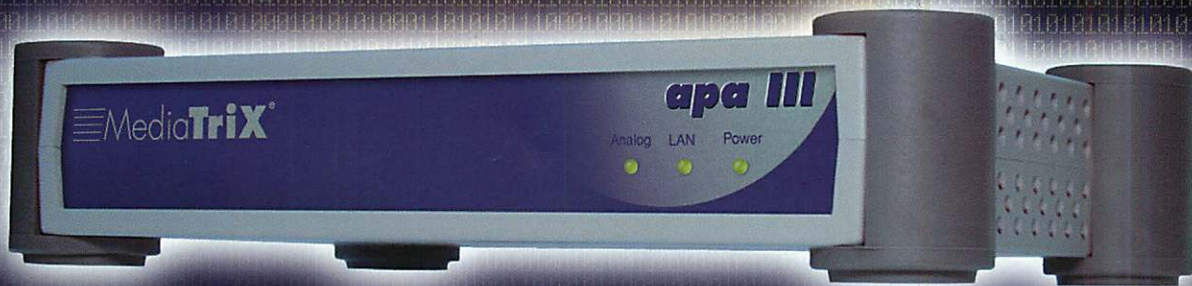MediaTriX® — apa III — Analog · LAN · Power

The APA III-4 is a software-configurable telecommunications device that provides full duplex voice/fax communications over IP-based networks for analog telephones and G3 fax machines.

- Compliant with standard protocols:
  - H.323v2
  - MGCP v0.1
  - SIP

- Supports standard vocoders:
  - G.711 (A-law and u-law)
  - G.723.1
  - G.729 a, b, e

- User-friendly administration and remote management using standard protocols (DHCP, SNMP, HTTP). Software can be updated and features extended using TFTP.

- Can act as a gateway by establishing a single link between the PSTN and the IP network.

- Leverages your existing networks, phones, fax machines, key systems, PBX and modems without requiring any additional investment or user retraining.

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COMMUNICATION INFORMATION

Call Quality
- Instant connection over IP
- Toll quality voice over IP

Interoperability
- Connects with both IP and PSTN networks
- Can act as one-line gateway to PSTN

Connectivity
- Connects with H.323 Gateways and Gatekeepers (H.323 version)
- Connects with MGCP Call Agents (MGCP version)
- Connects with SIP Call Servers (SIP version)
- Connects with analog PSTN for Life Line and/or Gateway functionality

Life Line
- Automatic fall back to PSTN in case of power failure or network breakdown

Multiple calling configurations
- APA - APA: An APA calls another APA over IP
- APA - PSTN: An APA makes a local call over the PSTN telephone network
- APA - Gateway (APA) - PSTN: An APA calls up a distant APA Gateway over IP and makes a local call over the PSTN or vice-versa

Manageability
- Upgradable through remote software download
- Remote manageable by using HTTP and SNMP protocols
- Fast configuration by means of DHCP (plug and call)

TECHNICAL SPECIFICATIONS

Protocols
- SIP, H.323v2 and MGCP
- TCP/IP, TFTP, HDCP, SNTP
- Gatekeeper routed and direct routed model
- Fax transmission protocols: T.30 and T.38

Vocoders
- G.711 (A-law and u-law)
- G.723.1
- G.729 a, b, e

Connectable terminals
- Analog telephones
- Group 3 fax machines
- V.34 modems over clear channel

Programmable configuration
- Users and application-specific profiles are supported
- Generation of country-specific dial and busy tones
- Generation of different ringer frequencies (20/25/50 Hz)
- Country-specific modification of the analog interface
- Line attenuation (in accordance to US and European requirements, ETS 300 439)

Connectors
- 3 RJ-11 connectors for analog phone/fax (FXS) interface
- 1 RJ-11 connector software-configurable either as Line-In (FXO) or traditional analog phone/fax (FXS) interface
- 1 RJ-11 connector used for PSTN Life Line
- 1 RJ-45 for 10/100 BaseT Ethernet access
- 1 Unregulated 12 volts/9.6 watts power supply

Analog (FXS) Line Interface
- Trunk type: Loop Start
- Max. 3 ringer equivalents (3 REN)
- Loop current: 15 - 50 mA (470 Ohm)
- Frequency: 200 Hz - 3400 Hz (Q.552)
- Return Loss: ETS 300 439

PSTN (FXO) Interface
- Trunk type: Loop Start
- Ring detection: 15 Vrms min, 13 to 68 Hz (configurable)
- Nominal Impedance: BellCore compliant 600/900 ohms

Internal Architecture Details
- CPU: Motorola Power PC 860DT
- DSP: 4 x Texas Instruments TMS320C5402
- RAM: 4 Mbytes x 32
- Flash ROM: 4 Mbytes x 8
- DSP Ram: 4 x 128 KWords

External Power Supply
- Country specific

Dimensions and Weight
- Height: 5.5 cm, 2.2 in
- Width: 26 cm, 10.2 in
- Depth: 18 cm, 7.0 in
- Weight: 580 g, 1.3 lbs

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