

PATTON ELECTRONICS

Patton Electronics Company M-ATA SIP Software Revision 4.02.0A1 MS VR CS (0001) Jan 6th, 2010

Bug Fixes:

- During a T.38 Fax transmission, the M-ATA was sending HDLC Sync with a bad FCS. This issue has been fixed.
- Auto-Provisioning default setting has changed to OFF.
- During a T.38 Fax transmission, M-ATA didn't accept SIP re-invite messages. Now it works fine.
- It was not possible to modify busy-tone in the tone set profile. Now it is possible.
- The M-ATA was not able to resend the CED tone over T.38. Now it works properly.

Connectivity:

- 1 10/100 Full Duplex/Autosensing Ethernet RJ-45.

Voice Connectivity:

- 2-wire Loopstart, RJ-11/12.
- Short haul loop 1.1 km @3REN.
- Caller-ID Type-1/2 FSK and ITU V.23/Bell 202 generation.

Voice Processing (signalling dependent):

- SIP
- Voice codes
 - G.711 A-Law/ μ -Law (64 kbps)
 - G.726 (ADPCM 40, 32, 24, 16 kbps)
 - G.723.1 (5.3 or 6.3 kbps)
 - G.729ab (8 kbps)
- G.168 echo cancellation
- 2 parallel voice connections
- DTMF detection and generation
- Carrier tone detection and generation
- Silence suppression and comfort noise
- Configurable dejitter buffer
- DTFM in-band & out-of-band
- Configurable transmit packet length
- RTP/RTCP (RFC 1889)
- STUN

Fax and Modem Support:

- G.711 transparent FAX.
- T.38 Fax Relay (9.6 k, 14.4 k).

Voice Services/Features:

- Anonymous CallerID block
- Call blocking
- Call forward—on busy
- Call forward—selective
- Call forward—unconditional
- Call hold/retrieve
- Call return
- Call transfer—blind
- Call transfer—with consultation
- Call waiting/retrieval
- Caller-ID
- Conference drop
- Conferencing (3-way calling)
- Distinctive ring
- Do not disturb
- Hotline calling
- Incoming CallerID on/off
- IP URL dialing
- Message waiting indication
- Self-caller ID block
- Speed dial
- Voicemail message retrieval
- Warmline calling

IP Services:

- NAPT
- DHCP client
- PPPoE
- IPSEC VPN
- Packet fragmentation.
- VLAN support 802.1p/q.

Management:

- Browser configuration interface
- Multilevel security access
- TFTP & HTTP configuration & firmware loading
- SNMP v2 agent (MIB II and private MIB)
- Syslog support.

Operating Environment:

- Operating temperature: 0-40°C (32-104°F)
- Operating humidity: 5-80% (non condensing).

System:

- Power: 100-240 VAC (50/60 Hz)

Compliance:

- EMC compliance: EN55022 and EN55024
- Safety compliance: EN 50950
- CE compliance
- FCC Part 15 Class B

Physical:

- Dimensions: 3.6L x 2.1W x 0.78H in. (9.0L x 5.3W x 1.9H cm)
- Weight: 0.2 lbs (0.09 kg)

Known Issues:

- IP dialing does not work properly, still in research.
- Problems with some fax machines T.38.
- Codec G.729 unselectable on the CODEC's page, due to it's needed by M-ATA's IVR.