Aastra MBU™ 400

The Aastra MBU 400 is an affordable, scalable SIP DECT mobility solution specifically designed for Small Business

Bringing superior DECT 6.0 based technology to the Small Business market, the MBU 400 offers a reliable, cost effective, multi-handset office mobility solution. Consisting of the MBU 400 gateway, which supports eight unique SIP registrations, one analog FXO port, and up to eight 420d handsets, the system can function as a standalone SIP DECT solution or can be tightly integrated with the AastraLink Pro™ 160 IP Key system. With handset features such as color screen display, polyphonic ring tones and easy access to functions and features, the MBU 400 increases Small Business productivity and efficiency.

Key Features and Benefits:

- **Fully Integrated Solution**
  The MBU 400 DECT gateway supports eight unique SIP registrations and one FXO port providing a fully integrated SIP and Analog service for Small Business. If VoIP service should fail unexpectedly, outgoing calls will be routed automatically through the FXO port. It offers true multi-user capability with capacity for up to eight handsets with eight individual VoIP telephone numbers and, unlike traditional cordless solutions, allows 4 simultaneous calls at once. The MBU 400 can also be provisioned and managed via the AastraLink Pro™ 160 web UI, providing a single tool for configuration and maintenance of the handsets and other Aastra SIP terminals.

- **Superior Technology**
  Employing DECT 6.0 technology, the MBU 400 offers virtually interference-free performance in any work or residential environment. The technology employs advanced encryption providing an extra layer of security to calls and improving overall wireless call quality.

- **Feature Rich Handsets**
  The 420d handset is equipped with a 1.5", backlit color graphical display providing phone status, Caller ID, Call Waiting, DND, Transfer, Hold and a variety of information at-a-glance. This stylish handset also offers features such as speakerphone, intercom between handsets, vibrate functionality, polyphonic ring tones, twelve hour talk time capability and a large directory for up to 170 entries.

- **Scalability**
  The MBU 400 can expand with a growing Small Business. By simply adding up to seven additional handsets, the MBU 400 can easily grow to meet changing business needs. When integrated with the AastraLink Pro™ 160, provisioning of the handsets is effortless.

- 8 SIP unique registrations, 8 SIP handsets (420d only) 1 FXO port and 1 LAN port
- Automated SIP to FXO call failover
- Supports up to 4 concurrent calls (3 SIP, 1 Analog)
- Intercom between handsets
- Graphical color display (128 x 128 bit, 65,536 colors and backlit)
- Talk time: 12 hours/Standby time: 200 hours
- 170 entry phonebook
- 50m/150ft. indoor Range
- Speakerphone
- Polyphonic ring tones
- Vibrate alerting
- DECT 6.0
- AastraLink Pro 160 Integration
- Manageable via: TFTP configuration file, web UI and AastraLink Pro 160
- Caller ID Name and Number
- Call Waiting Name and Number
- Call Transfer
- Call Hold
- Call Forward
- Message Waiting Indication (MWI) Voltage and FSK
- Do Not Disturb (DND)
- Call groups

400d Handset

Handset Physical Specs
- Integrated DECT Antenna
- Handsfree Speakerphone
- Built-in Vibrate/Trembler function
- Headset Jack (2.5mm)
- Removable Belt Clip support (swivel & belt clip options)
- Hearing Aid Compatibility

Handset Specifications
- 1.5" Color LCD with backlight (64K color support)
- 128x128 pixel resolution display
- Illuminated display and keypad
- 9 Polyphonic ring tones
- Distinctive ringing support
- Call Log List (Last 30 missed, outgoing, and incoming calls)
- Personal Phonebook (170 entries)
- Status indicators – On/Off Hook, Signal Strength, Ringer Off, Alarm, Battery Life, MWI, Key Lock, Missed Calls, Speaker On/Off, Mute.
- Date/Time Display
- Handset Number and User Name Display
- Display Contrast Adjustment
- Silent Charging Option
- Call Waiting
- Caller-ID
- Call Hold
- Call Forward
- Redial List
- Automatic Answer support off the cradle
- Over-the-air Handset software updates
- Handset Speakerphone Acoustic Echo Cancellation (AEC)
- Battery: 650mAh Lithium Ion

Handset Performance
- Frequency 1.92-1.93GHz (DECT)
- Approx Range: 300m (985ft) outdoor, 50m (165ft) indoor*
- Up to 12hrs talk time
- Up to 200hrs standby time
- Visual Coverage Warning
- Low Battery Warning

Localization
- Multiple handset language support (English, Danish, German, Spanish, French, Italian, Dutch, Portuguese, Finish)
- MBU Web Management Interface in English

Mobility Base Unit

Base Unit Features
- Multiple Handset Capability: Support for 8 paired 420d DECT handsets each with a unique VoIP telephone number
- Centralized/Shared Phonebook (170 entries) for all paired handsets
- Embedded HTTP web-server for configuration

Base Unit Wireless Features
- DECT 6.0 – 1.92-1.93Ghz (North America), 1.88-1.90Ghz (EMEA)
- Integrated Antennas
- Approx 50m indoor and 300m outdoor range*

Interface Specs
- 1 x RJ45 10/100BaseT Ethernet Interface
- 1 x RJ11 Analog FXO port

Network Features
- QoS/ToS/Diffserv Tagging per IEEE 802.1p/q

Physical Specs
- Visual LED indication for Power, Network, VoIP status, and Active Call
- 1 LAN, 1 FXO Connection

Software Features
- Up to 8 simultaneous unique SIP Trunks (registrations/accounts)
- Automated SIP to FXO call failover
- Up to 4 simultaneous active calls supported (3 VoIP, 1 PSTN)
- 3-party Conferencing Support
- Embedded Web Management Interface (HTTP)
- STUN Client NAT support
- HTTP/TFTP firmware upgrades
- DHCP Option 66 support
- Remote firmware upgrade over HTTP/TFTP
- Configuration using Web Management Interface or via HTTP/TFTP server
- Support for periodic download of configuration files via HTTP/TFTP
- Embedded Music-on-Hold support for PSTN calls on HOLD
- PSTN/FXO Interface Flash Support

Certified Call Controls
- BroadSoft BroadWorks Platform Rel 13.0 and 14 (SP3)
- Sylantro Feature Application Server Rel 3.2.1
- Asterisk open source communications platform

Codec Support
- G.711 (u-law, a-law)
- G.729A/B
- iLBC
- Voice-Activity-Detection / Silence Suppression support
- Adaptive Jitter Buffer

SIP Compliance
- RFC3261 – SIP 2.0 standard
- RFC3263 – Locating SIP Servers (DNS SRV)
- RFC3264 – Offer/Answer SDP
- RFC3515 – REFER header
- RFC3265 – Subscription for MWI
- RFC2976 – DTMF INFO
- RFC2833 – DTMF in/out-of-band
- RFC3842 – MWI
- RFC3891 – REPLACES header
- RFC2543 – HOLD

Regulatory Compliance
Safety:
- ETL Safety/UL 60950-1/CSA 22.1 No. 60950-1
- EN 60950-1
- AS/NZS 60950

RF:
- FCC Part 15, DECT 6.0
- IC RSS-GEN, RSS-213

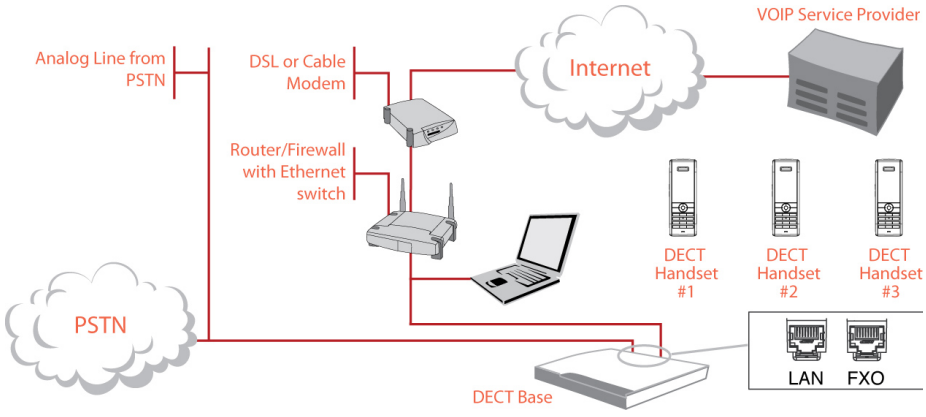
EMC:
- FCC Part 15, Class B
- ICES-003, Class B
- AS/NZS CISPR22, Class B
- EN 55022, EN 55024

SAR:
- SAR OET Bulletin 65, EN 50360

TELECOM:
- FCC Part 68 including HAC
- IC CS-03
- TBR21
- AS/NZS S002/S004

* Actual range varies depending on deployed environment, building materials, and other external influences.

Small Business SIP Mobility



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