



Aastra MD Evolution

General characteristics

Aastra MD Evolution is a modular communication system that provides business-specific applications to small to medium-sized enterprises.

Its converged architecture allows cost-efficient and effective synergies when converging voice, data and management services. The SIP trunking and SIP extension capability bring MD Evolution into the SIP world. The system is also strong in mobility, with mobility extension and IP DECT solutions.

MD Evolution offers a range of environmentally sound, wired telephones, spanning the simplified sophistication of IP phones

to basic analog models. These are essential business tools for your enterprise, and are compatible with the DECT cordless models, designed to provide you with anytime, anywhere access. These telephones can be easily adapted to suit your organization's needs.

MD Evolution also provides integrated voice server capability, incoming call distribution features, CTI and a very high-performance, least-cost routing feature.

Telephone range	Dialog 4225 Vision	Dialog 4223 Professional	Dialog 4222 Office	Dialog 4220 Lite	Dialog 5446 Premium	Dialog 4425 IP Vision v2	Dialog 4422 IP Office v2	Dialog 4420 IP Basic
Interface	Digital	Digital	Digital	Digital	Ethernet 10/100 Base T	Ethernet 10/100 Base T	Ethernet 10/100 Base T	Ethernet 10/100 Base T
Additional key panel unit KPU	4 KPU	4 KPU	1KPU		Touch Screen	4 KPU	1 KPU	
Dynamic key with LCD display	4+3 (navigation)	4			x	3 (navigation)		
Number of repertory keys (with 1/4 KPU)	17/68	17/68	17			17/68	17	
Call by name (internal or external calls)	•	•	•		x 1000 contacts	100 personal numbers		
LCD display	6x50 chr.	3x40 chr.	2x20 chr.		4,3 inch Graphic-color	6x50 Backlit in V2	2x20 chr.	No display
Call cost/duration display	•	•	•		x	•	•	
Time and date display/dialed number	•	•	•		x	•	•	
Call account counter display	•	•	•		x	•	•	
Caller name with automatic callback (calls with no reply)	10 last nos.	10 last nos.	10 last nos.		100 max. (call list)	50 max. (call list)	50 max. (call list)	51 max. (call list)
Called name with automatic callback/redial	Redial	Redial	Redial	Redial	100 max. (call list)	50 max. (call list)	50 max. (call list)	51 max. (call list)
Integrated text guide	•	•	•		x	•	•	
Waiting caller's identification (number* and name**)	•	•	•		x	x	x	
External caller's identification (number* and name**)	•	•	•		x	•	•	
Internal caller's identification with name	•	•	•		x	•	•	
Display required extension's status	•	•	•		x	x	•	
Incoming call deflection	•	•	•		x	x	x	
Hands-free	•	•	•		• AEC	• AEC	•	
Internal text messages (ISDN) (send/receive)	•	•	•	Send	x	x	x	
Programmable soft keys (with 0/1 or 4 KPU)	16/84	6/74	6/23	6		17	7	7
Call screening	•	•	•	•				
Multi-line/multi-calls	8 lines	8 lines	6 lines	6 lines	3 lines	3 lines	3 lines	
Mute key with LED	•	•	•	•	x	•	•	
Line status display	•	•	•	•	x	x	x	
Voice message notification with LED and voice prompt	•	•	•	•	x			
Ringing melodies	10	10	10	10	10	10	10	10
Ringing volume levels	10	10	10	10	10	10	10	10
Voice calling on digital phones	•	•	•	•				
Hotline to internal/external number	•	•	•	•	x	x	x	x
General voice calling on digital terminals within a group	•	•	•	•				
Conference — up to 4 parties	•	•	•	•	x	x	x	x
On hold, inquiry, broker's call	•	•	•	•	x	•	•	•
Call recording	•	•	•	•	x	•	•	•
Call pick-up	•	•	•	•	x	x	x	x
Hunt groups (up to 64 groups, up to 250 extensions in groups)	•	•	•	•	x	•	•	•
Personal group (up to 5 phones)	•	•	•	•	x	•		
Call monitoring	•	•	•	•	x	x	•	
Abbreviated numbers/last external number redial	•	•	•	•	x	•	x	
Call offer/intrusion	•	•	•	•			No	
Call parking	•	•	•	•	x	•	•	
General calls in auxiliary attendant mode	•	•	•	•	x	•	•	
Tone/intrusion protection	•	•	•	•	x	•	•	
Automatic callback	•	•	•	•	x	•	•	
Call forwarding all calls/when no reply/when busy/do not disturb	•	•	•	•				
External call forwarding (remotely programmable)	•	•	•	•	Free seating	Free seating	Free seating	Free seating
Substitution/sign-on	•	•	•	•	Free seating	Free seating	Free seating	Free seating
End-to-end signaling (DTMF tones)	•	•	•	•	x	•	•	•
Internal/external call transfer	•	•	•	•	Without prompt	Without prompt	Without prompt	Without prompt
Call appointment with voice prompt	•	•	•	•	Without prompt	Without prompt	Without prompt	Without prompt
Lock-out with voice prompt	•	•	•			•	•	
Integrated headset connection	x	x	x	x	x	x	x	
PC/Modem/Fax connection					2-port mini-hub	2-port mini-hub	2-port mini-hub	2-port mini-hub
Specific interfaces provided by an optional unit								
Extra bell	•	•	•			No	No	
Busy signal	•	•	•			No	No	
Combined extra bell and busy signal	•	•	•			No	No	
Optional equipments for DECT mobiles								
Headset profile								
Bluetooth connectivity								
Portable hands-free								
Individual charger								
Docking station								
Weight								
Talk/standby/charge time								
SMS messages—receive and send								
Intrinsic safety IP64								
ATEX classification II (Gr IIIC4)								
Vibrator								
DATI functions for isolated worker (with MD Evolution XL)								

* From MD Evolution directory or ISDN network ** For analog phone managing CLIP/CNIP

Dialog 4106 Basic		Dialog 4146 Medium/Hotel		Dialog 4187 Plus		Other analog phone	DT190	DT292	DT390	DT590	DT690	DT432 / DT422/ DT412	
Analog		Analog		Analog		Analog	Radio DECT-GAP	Radio DECT-GAP	Radio DECT-GAP	Radio DECT-GAP	Radio DECT-GAP	Radio DECT-GAP	
							3		4+3		4+3		
		50 names											
		+ nos. 2x20 chr.		20 names + nos.		100 names + nos.	250+500	1000+ 100 names+ nos.	250+1000	100 names + nos.			
		•		4 icons + 12 chr.+Soft keys		7 icons + 2x12 chr.	Backlight 112x115	5 icons + 101x80 pixels	Color 128x160	6 rows (20 char./icons)			
		Duration		Call duration		Call duration	Call duration	Call duration	Call duration	Call duration	Call duration		
		Time/dialed nb		•		•	•	•	•	•	•		
Redial		20 last nos.		5 last missed calls		20 max	25 max. (call list)	20 max. (call list)	25 max. (call list)	20 received/dialled calls	20 received/dialled calls		
				5 in call list		20 max	25 max. (call list)	20 max. (call list)	25 max. (call list)	20 received/dialled calls	20 received/dialled calls		
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		•		•		•	•	•	•	•	•	No	
4		2x8		2x10		1						13	10 hot keys
•		•		•		Icon display	Icon display	Icon display	Icon display	Icon display	Icon display		
•		•		•		Icon display	Icon display	Icon display	Icon display	Icon display	Icon display		
3		5		10		Voice prompt	•	•	•	•	•		
3		3		3+silence		Type of phone	3 for external call	6	14	14 predefined+ 10 programmable 9	14		
•		•		•		Type of phone	5	3	8	•	8	5+ silence	
•		•		•		•	•	•	•	•	•		
•		•		•		No	No		No			No	
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System dimensionning

	MD Evolution M	MD Evolution XL
Network		
SIP trunks	64	64
VoIP gateway (channels)	128	128
PRA	1	4
BRA	16	32
Analog trunks	32	44*
Internal connections		
S0 bus	16	32
Wired phones	36	176
IP terminals	200	200
Mobile extension	120	120
DECT – GAP		
Cordless phones	60	120
Base stations	8 **	22 **
Integrated Voice Server		
Max.number of ports	32	32
Recording capacity	58 hours	58 hours

* 16 with trunk protection

** Up to 100 with IP DECT solution

- 32 classes of services
- 16 programmable toll restriction tables (MD Evolution M: 8)
- 500 extension numbers per system (500 DID numbers)
- 6-digit numbering plan, programmable prefixes and suffixes
- 800 abbreviated numbers with associated names
- Click-to-talk with user web browsers based on company phonebook
- 1 to 4 operator positions
- 2 general ring tones (1 for MD Evolution M)
- Day/night service
- CLIP/CNIP service on analog trunks/ extensions
- 8 trunk groups, Trunk-to-trunk capability
- Automated answering by timetables
- 64 hunt groups with call distribution (cyclic, linear or all extensions)
- Personal group from 2 to 5 extensions (wired terminals, DECT terminals, mobile extensions, IP phones)
- Integrated standard music on hold
- 15 voice ports for music on hold, greeting messages, background music
- Customizable integrated voice messages (total length 58 hours)

Integrated voice server Contact

- Integrated voice mail (250 boxes, 16 distribution lists, personal assistant, customized welcome message, internal/external notification)
- Automated attendants (max.100AA, 100 menus)
- Fax deviation within automated attendant
- Management via user web browsers including personal welcome message

Unified messaging

- E-mail and voice mail handling
- Redial caller
- Unified messaging on any generic SMTP client (MS Outlook, Lotus Notes, etc.)

ICD, CTI, call center

- Integrated incoming call distribution (ICD) including queue management and customized scenarios
- Third party CTI-Link (CSTA/TSAPI/TAPI 2.1)
- CTI application: BackStage Platinum for personal efficiency (telephony services, incoming call routing, Buddy field, screen pop-ups, SMS texting, call logs, phonebooks, etc.)

DECT-GAP Mobility

- Integrated DECT solution for 120 DECT-GAP cordless phones (60 for MD Evolution M)
- Or IP DECT-GAP solution for up to 200 DECT-GAP terminals defined as SIP extensions
- SMS texting capability
- Digital conversation quality
- Hand-over in all covered areas

Mobile extension

- Access for company GSMs and remote workers to the system via SIP Trunking/ ISDN network
- Up to 120 mobile extensions
- Service available on ISDN/ SIP Trunking/ IP H.323 networks
- Caller's authentication by network information or dialed password
- Same telephony services as an internal phone, including external transfer, call forwarding, caller/called identification and mailbox access
- No specific hardware required

Traffic and billing

- Incoming, outgoing, and internal call registering and printing (in real-time or on-demand)
- User call accounting on operator console
- Trunk and user call accounting on operator console
- Storage of up to 9100 records for later analysis by remote billing server
- Traffic analysis and detailed reports

LCR (Least Cost Routing)

- Routing optimization according to dialed number, time and network availability
- Overflow to other trunk group upon first trunk group congestion (4 possible routes/call)
- Homogeneous numbering plan with LCR

Private networking

- For voice, fax and data based on public/private links (PRA/BRA/ IP H.323 links/analog trunk)
- Telephone services according to QSIG-VAPA protocol, and supervision of remote extensions, remote call pick-up
- Interoperability with MD110/MX-ONE™/TSW with QSIG-VAPA features on IP.H.323/PRA/BRA
- Interoperability with other vendor PBXs with QSIG features on IP/PRA/BRA
- Supports the EBN configuration

System management

- Management Software Suite TLG, PC-based tool
 - Remote management for databases, software upgrading and call records through ISDN/PSTN/IP
 - Diagnostic and maintenance tools, support for SNMP v1/v2/v3
 - Single PC can manage up to 400 MD Evolution systems.
- 2 V.24 ports, 1 Ethernet 10/100 Base T port

Distances for connection

- Analog interface: 2 wires/2000 m
- Digital interface: 2 wires/800 m
- S0: 4 wires/800 m
- IP connections: Ethernet 10/100 Base T
- DECT base station: 4 wires/900m

Power supply

- Integrated power supply, 100-240V, 50/60Hz, ringing 20/25/50Hz for MDE-M
- Integrated power supply, DC/DC 48V or AC/DC 220V, 50Hz MDE-XL
- Option for internal or external battery back-up

Cabinet dimensions

- MD Evolution M: 13 x 43 x 48 cm
MD Evolution Mi: 19-inch cabinet 3U
- MD Evolution XL: 23 x 45 x 57 cm
- MD Evolution XLI: 19-inch cabinet 9U

