

MiVoice MX-ONE Capacity



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1 INTRODUCTION

This document lists the line / device related capacities for the MX-ONE.

For service related capacities, see the description for *MIVOICE MX-ONE FEATURE MATRIX*.

For a complete list of abbreviations and glossary, see the description for *ACRONYMS, ABBREVIATIONS AND GLOSSARY*.

Note: Most capacity figures are related to the software. This should be considered carefully, especially for the number of extensions and trunk lines per MX-ONE Service Node where the maximum number may be limited by the capacity of the installed hardware.

1.1 DEFINITIONS

Table 1 Media gateway definitions

MX-ONE Classic	MX-ONE Classic is provided as one 7U high, 19-inch wide sub-rack with 16 board positions for different functions and interfaces. This media gateway is based on the MGU board.
Media Gateway Classic Stackable	Media Gateway Classic is provided with the old Stackable building practice with up to 4 magazines per gateway, each magazine contains 8 board positions for different functions and interfaces. This media gateway is based on the LSU-E board. Note that Stackable is in passive sustaining mode and that the product can be used in migrated/upgraded systems, but: <ul style="list-style-type: none"> • The item is service stopped and can no longer be repaired. • The item is phased out and new functionality can no longer be developed for this type of board. • No support is given for errors caused by faulty HW.
MX-ONE Lite	MX-ONE Lite is provided as one 3U high, 19-inch wide sub-rack with 5 board positions with MGU2 and 4 board positions with MGU. The MX-ONE Lite with the MGU board can have hidden optional TMU or MFU board.
MX-ONE 1U	MX-ONE 1U is provided as one 1U high, 19-inch wide sub-rack. The MX-ONE 1U Media gateway with MGU2 board has room for one interface board. With the MGU board a hidden optional TMU or MFU board can be used. With the MGU2, one board slot is available for optional device board, e.g. ELU34, TMU/12 etc.
MX-ONE Media Server	The MX-ONE Media Server is a software based media gateway for MX-ONE. This media gateway is for pure SIP scenarios only, i.e. it cannot be used with TDM type of parties. Thus many of the capacity figures in this document are of no relevance when MX-ONE Media Server is used. MX-ONE Media Server can be mixed with other media gateway types in the same server.

Note: Older equipment/building practices than Stackable cannot be used in MX-ONE 6.0 or later releases.

1.1.1

CAPACITY FOR DIFFERENT SERVERS IN MX-ONE 6.X

- **DELL PowerEdge R310/R320** - The DELL server can handle up to 15000 terminals and 15 Media Gateways.
- **ASU** - ASU is an embedded server board that can handle up to 4000 terminals and 15 Media Gateways. It is available with one or two Hard Disc Drives or Solid State Discs. Note that ASU cannot be used in Stackable building practice, due to heat dissipation. The processor is an P8400 2.26 GHz Dual-core with 8GB memory.
- **Mitel ASU-II** - AASU-II is an embedded server board that can handle up to 15000 end-points and 15 Media Gateways. It is VMware 5.5 U3 certified, and available with one or two hard disc drives or solid state discs. Note that ASU-II cannot be used in Stackable building practice, due to heat dissipation. The processor is an I7-4700EQ 2.4 GHz Quad-core with 16GB memory.
- **Mitel ASU Lite** - ASU Lite is an embedded server board that can handle up to 1.000 terminals and 15 Media Gateways. It is available with one Hard Disc Drive or Solid State Disc. Note that ASU Lite cannot be used in Stackable building practice, due to heat dissipation. The processor is an Intel Celeron J1900 2.0 GHz Quad core with 8 GB memory.
- **HP ProLiant DL360 G7 with 1 processor** - The HP server can handle up to 15000 terminals and 15 Media Gateways. (No longer delivered server variant, but can be used in upgrading scenarios.)

Note: An unknown server type would be allowed a default maximum of 15000 terminals, but the maximum can be lowered by O&M command, which also works for the known server types.

1.1.2

CAPACITY FOR DIFFERENT MEDIA GATEWAYS

- **MX-ONE 1U** - MX-ONE 1U is a Media Gateway with MGU2 and optional TMU it supports up to 2.100 IP terminals or 700 mobile terminals. It has one slot for optional device board e.g. ELU34, TMU etc. The MX-ONE 1U with MGU did host one hidden optional TMU or MFU board, but as there are no board slots available, no additional TDM trunk or extension boards can be used. Using MGU2, one board slot is available for one trunk or extension board.
- **MX-ONE Lite** - MX-ONE Lite is a 3U Media Gateway with MGU. It supports up to 2.100 IP terminals or 700 mobile terminals. It can host up to five optional boards (TMU, MFU, TLU, ELU) with MGU2 (four with MGU). The old MX-ONE Lite, based on LBP24 can host up to four optional boards.
- **MX-ONE Classic** - MX-ONE Classic is a 7U Media Gateway with MGU and one or more optional TMU it supports up to 2.100 IP terminals or 700 mobile terminals. It can host up to 15 additional boards.
- **MX-ONE Media Server** supports up to 2000 RTP resources. The resources are only needed for multi-party features, recorded announcements and for forced gateway cases.

Note: Capacities for other extension types than IP and mobile terminals, when applicable, are shown in section 2 MX-ONE Service Node Features on page 5.

Note: The MGU2 has approximately half the capacity of the MGU regarding RTP resources and ISDN trunks. See *MGU and MGU2 DESCRIPTIONS* for details.

2 MX-ONE SERVICE NODE FEATURES

2.1 EXTENSIONS

2.1.1 GENERAL CAPACITIES

Number of Extensions	MX-ONE Classic, MX-ONE Lite, MX-ONE 1U ⁷⁾ , MX-ONE Media Server ⁸⁾
Directory numbers per server	15 000 ²⁾
Total number of extensions per server	15 000 ⁶⁾
H.323 extensions per server	1 000
SIP extensions per server	15 000 ⁶⁾
- SIP Extra Directory Numbers per server	15 000, one EDN counted as one extension
- SIP Shared Call Appearance numbers	See Feature Matrix description
Analog extensions per server	2 560 ⁶⁾
Digital extensions per server ¹⁾	640
- Additional Directory Numbers per server ¹⁾	500
- Multiple Represented Directory Numbers per server ¹⁾	1 000
Mobile extensions per server	5 000 ¹⁰⁾
Cordless extensions (DECT) per server	640 ⁹⁾
ISDN S0 extensions per server	320
CAS extensions per server	640
IP-DECT extensions per server ⁴⁾	15 000 ⁶⁾
VoWiFi extensions per server ^{4) 5)}	15 000 ⁶⁾

- 1) The relationship between different types of digital extensions can be calculated as follows:
 $a+2b+3c+4d \leq 1920$ and $a+b+c+d \leq 640$
 a = one key strip extension
 b = two key strip extension
 c = three key strip extension
 d = four key strip extension
- 2) The total number of extensions in the server. The other values only indicates how many extensions, of each type of extension, there can be in a server.
- 3) This value is 0 for certain application systems.
- 4) Is treated as SIP extensions in the system.
- 5) VoWiFi extensions includes both WiFi extensions and 3G/GSM WiFi extensions.
- 6) Requires multiple media gateways. The extension capacity also depends on the server capacity, and the number of available public trunks, and is shared.

- 7) Using the MX-ONE 1U gateway, the extension capacities stated here are not applicable simultaneously, due to the limited number of available board positions.
- 8) If only MX-ONE Media Server is used, the system has to be IP only (no TDM lines).
- 9) This is the number of DECT extensions with the HLR in this server, but the total number of registered DECT terminals (including visitors) is 1000.
- 10) Requires multiple media gateways. The mobile extension capacity depends on the server capacity, the number of available public trunks, and is shared. 5000 Mobile extensions is thus a flexible maximum, that would require approximately 2000 trunks if 0.2 Erlang is the traffic intensity.

2.1.2

COMBINATIONS OF EXTENSIONS

SIP	H.323	DECT	Digital	Analog	Mobile	S ₀	CAS ext	Total
15 000								15 000
14 000	1 000							15 000
13 360	1 000	640						15 000
12 720	1 000	640	640					15 000
10 160	1 000	640	640	2 560				15 000
5 160	1 000	640	640	2 560	5 000			15 000
4 840	1 000	640	640	2 560	5 000	320		15 000
4 200	1 000	640	640	2 560	5 000	320	640	15 000

Note: Any combination of the above extension types can be mixed, but:

- The total number of extensions (including EDNs, ADNs, and additional terminals due to forking) cannot exceed 15 000.
- The maximum number stated per user type cannot be exceeded.
- The total capacity of 15000 extensions per server furthermore includes virtual extensions, the HLR redundancy/back-up 'guests' if that feature is active, and also TDM DECT visitors.
- Thus, if SIP (or H.323) or DECT extensions are used, and the HLR redundancy 'guest' and DECT 'visitor' functionality shall work, it is necessary to reserve some capacity for those functions, and deduct a certain number of initiated extensions from the total maximum 15 000 HLRs. The maximum is 15 000 for SIP, 1000 HLRs for H.323, 5000 HLRs for Mobile extension, and 1000 HLRs for DECT, where the sum of all types can be maximum 15 000.
- Reserve circa 3500-7500 (maximum 15000), for HLR redundancy guests if SIP is used, 200-300 if H.323 is used and 200-300 for DECT visitors. Note that except for ISDN PRI, the TDM capacity is limited to one TDM board if MGU2 is used in the MX-ONE 1U chassis and with MGU, there is no room for an additional board. Use the Classic or Lite chassis when several TDM boards are needed in each gateway.

2.1.3

DECT

The following values are capacity limitations and recommendations for the DECT system including Cordless extensions. They are valid for the MX-ONE Service Node

MX-ONE Classic or with legacy MD110 hardware, or for relevant figures also MX-ONE Lite.

For ELU31 with 32 individuals (ELU31/2, ELU31/3 and ELU31/4)	
Maximum number of Cordless extensions initiated in one server (given there are no other extension types initiated since the resources are shared), Home Location Registers (HLR)	640
Maximum number of Cordless extensions that may be located in one server simultaneously, Home and Visitor location Register (VLR)	1 000
Maximum number of ELU31 per Media Gateway	15
Maximum number of ELU31 per Server	60
Maximum number of Base stations per ELU31 (ELU31/2, CORE, only sustaining)	6
Maximum number of Base stations per ELU31	8
Recommended number of portable telephones handled by one ELU31(at 0.2 Erlang). See Cordless Phone Installation Planning	Varies
Recommended number of portable telephones handled by one Base station. See Cordless Phone Installation Planning	Varies
Maximum number of messages (Message Waiting) stored in the Home Location Register for one user	8
Number of simultaneous calls per Base station	8
Number of simultaneous calls to or from one single ELU31 with 32 individuals position on backplane	32
Number of ELU31 boards per magazine (ACM) with internal power	5
Number of ELU31 boards per magazine (IFM/PSM) with internal power	5
Number of ELU31 boards per magazine (IFM/PSM) with external power	5
Number of ELU31 boards per sub-rack (LBP22) with internal power	10
Number of ELU31 boards per sub rack (LBP22) with external power	10

For ELU31 with 16 individuals (i.e. ELU31/1 or if configured for only 16 individuals, also valid for ELU31/2, /3 or /4)	
Maximum number of Cordless extensions initiated in one server (given there are no other extension types initiated since the resources are shared), Home Location Register (HLR)).	640
Maximum number of Cordless extensions that may be located in one server simultaneously, HLR and Visitor Location Register (VLR).	1 000
Maximum number of ELU31 boards per Media Gateway	15
Maximum number of ELU31 boards per server	60
Maximum number of Base stations per ELU31 (/1 and /2 CORE, only sustaining)	6
Maximum number of Base stations per ELU31 (for ELU31/1 with BS330, BS340)	8
Recommended number of portable telephones handled by one 16-individual ELU31 (at 0.2 Erlang). See Cordless Phone Installation Planning	Varies

For ELU31 with 16 individuals (i.e. ELU31/1 or if configured for only 16 individuals, also valid for ELU31/2, /3 or /4)	
Recommended number of portable telephones handled by one Base station. See Cordless Phone Installation Planning.	Varies
Maximum number of messages (Message Waiting) stored in the HLR for one user	8
Number of simultaneous calls per Base station	8
Number of simultaneous calls to or from one single ELU31 (with 16 individuals)	16
Number of ELU31 boards per magazine (ACM) with internal power	5
Number of ELU31 boards per magazine (IFM/PSM) with internal power	5
Number of ELU31 boards per magazine (IFM/PSM) with external power	5

Note: ELU31/1 and ELU31/2 are not allowed in a sub-rack for LBP22, and shall be replaced by ELU31/4.

For more information, see the installation instruction for *CORDLESS PHONE*.

2.2

GROUPS

2.2.1

GROUP CALL PICK-UP

Max. number of extensions per group:	48
Max. number of groups per server (LIM):	3000
Max. number of unanswered calls to call pick-up groups:	1000
Max. number of extensions per server (LIM) which can be pick-up group members:	15000
Max. number of extensions per system which can be pick-up group members:	All

2.2.2

GROUP HUNTING

Maximum number of members per group:	160
Max.number of groups per server (LIM): (Shared with Ring group)	10000
Max.number of groups per system: (Shared with Ring group)	Only limited by licenses and number of servers
Max.number of queued calls per server: (Shared with Ring group)	25000
Max. number of queued calls per group:	30
Max. number of extensions per server (LIM) which can be group members:	15000
Max. number of groups in which an extension can be a member:	4

Max. number of simultaneous calls to an external destination when overflow or External Follow Me is active per hunt group	63
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2.2.3

RING GROUP (CASCADE RING GROUP)

Maximum number of members per group (rung in parallel):	16
Max.number of groups per server (LIM): (Shared with Hunt group)	10000
Max.number of groups per system (Shared with Hunt group):	Only limited by licenses and number of servers
Max.number of queued calls per server: (Shared with Hunt group)	25000
Max. number of queued calls per group:	30
Max. number of extensions per server (LIM) which can be group members:	15000
Max. number of groups in which an extension can be a member:	4
Max. number of extensions in a group that can be alerted simultaneously over the same DECT base station:	5
Max. number of simultaneous calls to an external destination when overflow or External Follow Me is active per hunt group	63

2.2.4

AUTOMATIC CALL DISTRIBUTION

The following table shows the capacities for the ACD feature. The group and queue capacities are also valid for CTI-groups, while the agent/member and backup group related capacities are not relevant.

Maximum number of ACD groups	
per server (LIM)	1024
per system	2048
Maximum number of Agent positions	
per server (LIM)	75
per system	1000
Maximum number of ACD members	
per ACD group	250
per server (LIM)	500
per system	4000
Maximum number of ACD groups with name display	250
Number of ACD groups an ACD member/ADN can belong to	1
Maximum number of ACD groups per agent position	8
Maximum number of simultaneous calls to an external destination when overflow or External Follow Me is active per ACD group	63
Maximum number of calls in queue	
per ACD group	250
per server (LIM)	5000

Maximum number of call back missions towards an ACD group per server (LIM)	25
Highest constant the number of queue positions can be altered per ACD group	50
Maximum number of queue priorities per system	32
Maximum number of digits in a PIN code	4
Maximum clerical time duration	999 seconds
Maximum number of back-up groups per ACD group	1

2.3 EXTERNAL LINES

2.3.1 GENERAL

External lines	MX-ONE Classic / MX-ONE Lite/ MX-ONE 1U/ MX-ONE Media Server 1)
External lines per system (124 servers assumed)	238 080
External lines per server	1 920 (E1) ²⁾ / 2 001 (T1) ²⁾
External lines per route and server using SIP	1 920
External lines per route and per server	1 920 (E1&H.323) ²⁾ / 2 001 (T1) ²⁾
Routes per server	250
Routes per system	250
External destinations per system	2500

1) MX-ONE Media Server is for SIP gateway traffic only.

2) Applies for ISDN/H.323 with MGU. Other trunks have lower maximum number of lines. There are maximum 1800 E1 and 1380 T1 lines with MGU2.

Note: The total number of trunks per server can only be as high as the maximum sum (even if there are mixed or different trunks in the same server).

Note: The MX-ONE Media Server media gateway only supports SIP trunks, so most of the information in this section is not relevant when MX-ONE Media Server is used.

2.3.2 SIP DECT SYSTEM

For more information, see the installation instruction for *SIP - DECT OM SYSTEM MANUAL, Installation, Administration and Maintenance*.

2.3.3 IP DECT SYSTEM

For more information, see the feature description for *IP DECT SYSTEM*.

2.3.4 IP WI-FI

For more information on WiFi extensions, see the feature description for *SINGLE MODE WI-FI DESCRIPTION*.

2.3.5

ISDN

E1 (30B+D)	MX-ONE Classic/ MX-ONE Lite/ MX-ONE 1U
External lines per server	1 920 *)
Interfaces per server	64 *)

*) Valid with MGU. Maximum 1800 lines and 60 i/f with MGU2.

BRI, both E and T i/f (2B+D)	MX-ONE Classic / MX-ONE Lite/ MX-ONE 1U
External lines per server	1 920
Interfaces per server	960

T1 (23B+D)	MX-ONE Classic / MX-ONE Lite/ MX-ONE 1U
External lines per server	2 001 *)
Interfaces per server	87 *)

*) Valid with MGU. Maximum 1380 lines and 60 i/f with MGU2.

Note: The total number of trunks per server can only be as high as the maximum sum (even if there are mixed or different trunks in the same server).

2.3.6

IP TRUNKS - H.323 AND SIP

H.323 (IP Networking)	MX-ONE Classic / MX-ONE Lite/ MX-ONE 1U
External lines per server (LIM)	1920
External lines per system	238 080

SIP (SIP networking or public routes)	MX-ONE Classic / MX-ONE Lite/ MX-ONE 1U/ MX-ONE Media Server
Routes per server (SIP trunks)	250
Media channels per server	1920 *)

*) SIP trunk could allow more, but the same limit as for ISDN and H.323 is currently valid.

2.3.7

DASS/DPNSS

DASS	MX-ONE Classic / MX-ONE Lite/ MX-ONE 1U
DASS external lines per server (E1)	240
DASS external lines per server (T1)	184
DASS interfaces per server	8

DPNSS	MX-ONE Classic / MX-ONE Lite/ MX-ONE 1U
DPNSS external lines per server (E1)	240
DPNSS external lines per server (T1)	184
DPNSS interfaces per server	8

2.3.8

CAS

E1 (2 Mbit/s)	MX-ONE Classic / MX-ONE Lite/ MX-ONE 1U ¹⁾
CAS external lines per server	90
For TL30 and MGU/MGU2	240
CAS interfaces per server	3
For TL30 and MGU/MGU2	8

T1 (1.5 Mbit/s)	MX-ONE Classic / MX-ONE Lite/ MX-ONE 1U
CAS external lines per server	230
CAS interfaces per server	10

- 1) Only MGU internal software based CAS is supported if MX-ONE 1U chassis is used.
One MFC board can be used, hidden board with MGU, normal MFU with MGU2.

2.3.9

CCS S7

CCS S7	MX-ONE Classic / MX-ONE Lite
TUP external lines per server	240
TUP interfaces per server	8

2.3.10

MFC

MFC	MX-ONE Classic/ MX-ONE Lite/ MX-ONE 1U ¹⁾
MFC external lines per server, with TL30	240
MFC external lines per server, with other TLs	90
MFC receivers per server, with TL30	72
MFC receivers per server, with other TLs	24
Maximum number of MFU boards per server, using TL30	12
Maximum number of MFU boards per server, using other TLs	4
Number of senders per MFU board	6
Number of receivers per MFU board	6

- 1) Only MGU internal software based CAS is supported along with one MFU board (/13 variant) if MX-ONE 1U chassis with MGU is used. With MGU2, the additional board slot is used for an MFU/11.

2.3.11

ANALOG TRUNKS

Analog trunks	MX-ONE Classic/ MX-ONE Lite/ MX-ONE 1U
Software external lines per server	96
Hardware external lines per board	12
Maximum number of boards per server (theoretical value)	8

2.3.12

TONE AND MULTIPARTY RESOURCES

Limits for the TMU board in Media Gateway MX-ONE Classic / MX-ONE Lite / MX-ONE 1U	
Tone and Multiparty Unit boards (TMU) per server	120 ^{1) 3)}
Number of keycode receivers per server (4 ind * 15 GW * 8 TMU)	480 ²⁾
Number of keycode senders per server (6 ind * 15 GW * 8 TMU)	720
Number of dial tone receivers per TMU board.	3
Number of tone message senders per board	24
Number of multi-party inlets per board	24
Number of multi-party inlets per server (24 ind * 15 GW * 8 TMU)	2 880, if 24 MP individuals per board are used
<p>The 30 individuals on the TMU board can be shared between multi-party and tone sender resources that can be configured per site. The configuration can be, for example: Number of tone senders per board: 4 Number of Music-on-Hold/Wait inlets per board: 2 Number of multi-party inlets per board: 24</p>	

- 1) Theoretically there can be 120 TMU boards per server, i.e. 8 TMU boards per GW, times 15.
- 2) Additional keycode receivers are available by the SPU4 (DTMF32) board. Each SPU4 board has 32 keycode receivers. A maximum of 6 SPU4 boards can be supported in a server.
- 3) If TMU boards are used and TDM type of extensions (analog or DTS), the following recommendations on number of TMUs are valid (per MGW).

Number of TDM type extensions	Number of TMUs
1-80 ⁴⁾	1
81-320 ⁴⁾	2
321-416 ⁴⁾	3

- 4) The values depend on the processor capacity.

Limits for the MGU board in Media Gateway MX-ONE Classic / MX-ONE Lite / MX-ONE 1U	
Number of keycode receivers	400 ⁵⁾
Number of keycode senders	400 ⁵⁾
Number of tone message senders	400 ⁵⁾
Number of multi-party inlets per server	64

- 5) Each MGU can have up to circa 400 (the maximum is processor load dependent) resources. See 1/1551-ANF 901 36 MGU Description for details. The MGU resources can also be combined with key code receivers on TMU boards.

Limits for the MGU2 board in Media Gateway MX-ONE Classic / MX-ONE Lite / MX-ONE 1U	
Number of keycode receivers	160 ⁶⁾
Number of keycode senders	160 ⁶⁾
Number of tone message senders	160 ⁶⁾
Number of multi-party inlets per server	64

- 6) Each MGU2 can have up to circa 160 (the maximum is processor load dependent) resources. See 2/1551-ANF 901 36 MGU2 Description for details. The MGU2 resources can also be combined with key code receivers on TMU boards

Limits for the Tone and Multi-party resources in one MX-ONE Media Server	
Number of MX-ONE Media Servers per server	15 ⁶⁾
Number of tone message senders per MX-ONE Media Server	256
Number of receivers in sunfan (e.g. Music on Hold) Server	256
Number of conference ports	512
Number of conference participants in one connection	8
Number of RTP resources	2000 ⁷⁾

- 7) The RTP resources is a shared pool used by conference and intrusion, Recorded Announcements, forced gateway and tone sending.

2.3.13

PBX OPERATOR

Operators per server	10
Operators per system	250
Multiparty inlets per operator	4
Maximum number of call origin groups per system	250

For information about the capacities for PBX Operator, see the description for *MIVoice MX-ONE FEATURE MATRIX*.

See also the description for Mitel InAttend, if that operator type is used.

2.3.14

PAGING

Number of pageable extensions	10 000 per system (1 000 per server)
Number of common and extra paging numbers	5 000
Simultaneous paging calls	500 per system (50 per server)

3 FEATURE CAPACITIES

For information on system and end-user telephony feature capacities and the associated terminal types, see the description for *MIVOICE MX-ONE FEATURE MATRIX*.

4 SYSTEM RELIABILITY

For more information, see the description for *SYSTEM HARDWARE RELIABILITY*.

5 TRAFFIC CAPACITY

- BHCC Busy Hour Call Completion - The number of completed calls in an uninterrupted period of one hour, during which the average intensity of traffic is at its maximum.
- Using DELL Powerededge R3x0 server B - BHCC, for a MX-ONE Service Node with a DELL Powerededge R3x0 server is ≤ 30 calls/second
- Using ASU based server - BHCC, for a MX-ONE Service Node with ASU = 10 calls/second.
- Using Mitel ASU-II based server - BHCC, for a MX-ONE Service Node with Mitel ASU-II = 30 calls/second.
- Using Mitel ASU Lite based server - BHCC, for a MX-ONE Service Node with Mitel ASU Lite = 5 calls/second

6 LINE LENGTHS

General

Analog phones, connected to a Media Gateway MX-ONE Classic/Lite/1U, or legacy MD110 hardware= 9 000 meters when using a 0.5 mm twisted pair cable.

Digital phones = 1 000 meters when using 0.5 mm twisted pair cable.