M100 – AlphaCom XE Interface

Quick Guide to Installation & Programming





Document Scope

This document provides a step-by-step procedure for interfacing the M100 exchange with the STENTOFON AlphaCom XE audio server system using the Audio Link Interface Unit.

The M100 exchange can be interfaced with the following AlphaCom servers:

- AlphaCom XE7
- AlphaCom XE20
- AlphaCom XE26

The procedures described in this document applies to the setup between a single-module M100 exchange and an AlphaCom XE7 server/exchange. The setup procedures for equipment other than this will differ somewhat from that described in this document.

Product Information

Product	Item Number
M100 Interface Package for AlphaCom XE7	100 964 9110
AlphaCom XE7 Audio Server	100 960 8100

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Related Documentation

For further information, refer to the following documentation:

Doc. no.	Documentation
21912	M100 S-72 – S-384 Exchange Installation Manual
A100K10805	AlphaCom XE Installation, Configuration & Operation

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1.1 M100 Exchange

The following M100 hardware equipment is required:

- S-72 or SO-72 Rack
- LBB 7102/94 Power Card
- LBB 7103/48 Voice Card
- LBB 7103/05 Computer Card (LBB 7103/07 if SO)
- LBB 7103/13 Function Card (FC)
- LBB 7110/45 Line Card (LU)
- LBB 7110/35 Line Matrix Card (LUS)
- LBB 7109/27 RS232 Opto interface with cable
- LBB 7105/95 Line Termination Unit
- LBB 7089/18 Display Station with backlight

1.2 AlphaCom XE System

The following AlphaCom hardware equipment is required:

- AlphaCom XE7 Package (100 960 8100) comprising:
 - Rack
 - PSU
 - AMC-IP Board
 - ASLT Board
 ASLT Connection Kit
 - ASET CONNECTION KIT
- AGA Board (included in M100 Interface Package)
- AGA Connection Kit (included in M100 Interface Package)
- Master Station

1.3 M100 Interface Package for AlphaCom XE7

The following items are included:

- Audio Link Interface Unit (100 970 9000)
- LBB 7103/61 Opto Cable
- RS232 Cable
- 3x2m M100 ribbon cables
- 6x2m AlphaCom XE flat cables

2.1 M100 Exchange

2.1.1 M100 exchange software

Supported SW

- 6U Computer Card LBB 7103/07: SW LBB 7216/83
- 3U Computer Card LBB 7103/05: SW LBB 7216/83
- FC Card LBB 7103/13: SW LBB 7202/28

2.1.2 M100 programming tool - SysMain

The programming tool for M100 is SysMain software version 3.0.

2.2 AlphaCom System

2.2.1 AlphaCom exchange software

The AlphaCom exchange software (AMC-IP) must be version 10.20 or higher.

AMC-IP software version 11.1.3.6 or higher is recommended.

The AMC-IP software includes the following software routines:

- The software daemon (M100D) which is running the M100 format with the Alphacom XE main software.
- The software daemon AMCD which is running the AlphaCom XE main software.
- The embedded web server which is used to configure AMCD and M100D.

2.2.2 AlphaCom programming tool - AlphaPro

The programming tool for AlphaCom is AlphaPro software version 10.28 or higher. AlphaPro version 11.2.3.1 or higher is recommended.

AlphaPro is used to identify M100 modules as nodes in the AlphaNet and to configure the AGA audio routing.

3.1 Audio Link Interface

The Audio Link Interface Unit is powered from the M100 module. Solder a 3-wire power cable to the three solder studs labeled **+5V**, **0V** \perp (GND), and **-5V** on the M100 backplane. Connect the other free end of the cable to a 3-way plug-in screw terminal that connects to the receptor labeled **-5V GND +5V** at the back of the Audio Link Interface Unit.

STENTOFON AUDIO	INTERFACE		
M100 Group Call M100 LU9	M100 LU9 & LU8 • Opto	AlphaCom Audio 6 AlphaCom Audio 5 AlphaCom Audio 4 AlphaCom Audio 3 AlphaCom RS232	n Audio 2 AlphaCom Audio 1 -5V GND +5V



4.1 M100

The M100 system communicates via optical fiber cables. The opto cable (LBB 7103/61) connects from the M100 Computer Card (LBB 7103/05) to the Audio Link Interface Unit. On the Computer Card, connect the opto cable to the connector labeled **Module 1** (assuming that the M100 is a single-module system). The other end of the opto cable connects to the receptors labeled **M100 Serial - Opto** at the back of the Audio Link Interface Unit.

4.2 AlphaCom

Use a crossed RS232 cable with male 9-pin D-sub connectors at each end to connect the AlphaCom XE7 serial Port 0 to the Audio Link Interface connector labeled AlphaCom RS232.



5.1 M100

5.1.1 Group Call

To connect Group Call audio for M100:

- 1. Connect a 20-core ribbon cable to the free connector labeled **PGM** at the back of the M100 module.
 - Only the Group Call channel is transmitted and not the Program Distribution channels.
- 2. Connect the other end to the connector at the back of the Audio Link Interface labeled **M100 Group Call**.

5.1.2 8 audio channels - 1 LUS board

To connect 8-channel audio for M100:

- 1. Connect a 32-core ribbon cable to the free connector labeled **LU8-9** at the back of the M100 module.
- 2. Connect the other end to the connector at the back of the Audio Link Interface labeled **M100 LU9 & LU8**.

5.1.3 16 audio channels - 2 LUS boards

To connect 16-channel audio for M100:

- 1. Connect a 16-core ribbon cable to the free connector labeled **LUS**/ **LU9** at the back of the M100 module.
- 2. Connect the other end to the connector at the back of the Audio Link Interface labeled **M100 LU9**.



5.2 AlphaCom

5.2.1 Group Call & 8 Audio Channels

To connect 8-channel Group Call audio for AlphaCom:

- 1. Cut off one connector on three 8-pair flat cables.
- 2. Connect the free ends to nine 4-way plug-in screw terminals according to the table below.

- 3. Connect the plugs to the corresponding connectors at the back of the AlphaCom XE7 Audio Server according to the table below.
- 4. Connect the other end of the cables to the connectors at the back of the Audio Link Interface labeled **AlphaCom Audio 1** to **3**.



5.2.2 Group Call & 16 Audio Channels

To connect 16-channel Group Call audio for AlphaCom:

- 1. Cut off one connector on six 8-pair flat cables.
- 2. Connect the free ends to seventeen 4-way plug-in screw terminals according to the two tables below.
- 3. Connect the plugs to the corresponding connectors at the back of the AlphaCom XE7 Audio Server according to the tables below.
- Connect the other end of the cables to the connectors at the back of the Audio Link Interface labeled AlphaCom Audio 1 to 6.





	8 AUD	IO CHA	NNELS, LUS9	- XE7	
Connector	Channel no.		Color	Plug	Terminal
	<u> </u>		Brown	21	a-b
	GC		Red	51	c-d
	1		Orange	22	a-b
AlphaCom	1		Yellow	52	c-d
Áudio 1	2		Green	22	a-b
	2	Blue	Blue		c-d
	2		Violet	24	a-b
	5		Grey	34	c-d
	4		Brown	35	a-b
AlphaCom			Red		c-d
Áudio 2	E		Orange	26	a-b
	5		Yellow		c-d
	6		Brown	25	a-b
	0		Red	25	c-d
AlphaCom	7		Orange	26	a-b
Áudio 3			Yellow	20	c-d
	0		Green	27	a-b
	8		Blue	27	c-d





6 Programming in SysMain (M100)

6.1 Installation

Install and start SysMain on your PC.

6.2 Getting Started for new M100 system

1. Select File > New

- A setup wizard will start
- 2. Click Next

Select e	xchange to	use		
C SB	-80 Basic E	xchange		
• s.	72 Stand-ald	one Exchange		
O sc)-72 ODIN E	Exchange		

3. Select S-72 Stand-alone Exchange and click Next

Select mode	
C Standard intercom system	
Hospital system	
C Prison system	

4. Select Hospital System and click Next

Clear tables		
C Clear table(s)	🗖 Number list	📕 Virtual number list/Alarm st. pager table
~	🔲 Short call table	Executive - secretary
 Use default tables 	🗖 Transfer table	Conference groups
	🔲 Tieline table	🗖 Node list
	Control desk table	
	Call restriction table	

5. Select Use default tables and click OK

A new database will then be created.

6.3 Setting system parameters

After setup is completed, the **Update system information** window automatically opens.

) parameters Desk parameters		
No of modules:			
System software type:	.≖ Hospital		
Call number digits:	0 ♣ Mix of 1 - 6	i diaits	
Music channel used fo	r Alarm st. 0 🚔 🔽 Enable	Alarm music	
Come Coll dista			
Group Call digits	Uverflow channels	Prison system	
02	1 LUS card C 21 US cards		
	V Z LOS Calus	20100	

- 1. Set No. of modules to 2.
- 2. Select the number of LUS cards installed.
- 3. Click OK

6.4 Updating the exchange

1. In the menu, click Exchange and select Send data to the exchange

Select Tables to send	i
Mode	ule: 🚺 🗾
-Table(s) to send	
Number list, Control d	lesk group, Display text
Class of service	
- 🔽 Extended COS	
Group call	
🔲 Display text	🔲 Short call list
System parameters	Control desk
Call restriction	🔲 Transfer
🔲 Specific characters	🗖 Tieline
🔲 Virtual number list and	d door/lift pager list
Executive / secretary	,
Conference groups	Send
	<u>C</u> lose
Sustem parameters	

- 2. Select Module 0
- 3. Enable Number list and System parameters
- 4. Click Send

6.5 Adding new module to existing M100 exchange

When there is an existing M100 exchange with modules that are already defined, a new module has to be added before connecting to the Audio Link Interface. In the **Update system information** window in SysMain, activate a new module by increasing the number of existing modules by one:

General Timing Paging	parameters Desk parameters		
	~		
No of modules: 5	€)		
System software type:	Hospital		
Call number digits:	0 🚔 Mix of 1 - 6	digits	
Music channel used for	Alarm st. 🛛 🎍 🔽 Enable	Alarm music	
Group Call digits	Overflow channels	Prison system	
• 1	I LUS card	No	
0.2	C 21US cards	C Yes	

The opto cable connects to the first available output. If no outputs are available, an ACIA card (LBB 7103/56) has to be installed. The ACIA card requires that the exchange is already fitted with the Computer Card (LBB 7103/05).

See M100 documentation for further details.

7 Programming in AlphaPro (AlphaCom)

The programming procedures described in this section is for setting up a single-module M100 exchange with an AlphaCom XE7. The setup procedures for equipment other than the above will differ somewhat from that described in this section.

7.1 Installation

Install and start AlphaPro on your PC.

7.2 Creating Nodes

Create a network and an AlphaCom node

- 1. From the menu bar, select [+] next to the **Select Network** drop-down menu.
- Enter 2 in the Node Number field
 this node number must be higher than M100 node number
- 3. Select AlphaCom E from the Node Type drop-down menu

Enter other relevant data for the network.

Update Rec	ords
Network Name: Database Path:	M100 Interface C:\Program Files\AlphaPro\Database\M100 Interface
First Exchange	
Exchange Name	». [АХЕ7
Node Number:	2
Туре:	AlphaCom E
Language:	English
AlphaNet: Adm.	Here 🔽
Concernant to JC of	ID addesse
Connect to/set	IF dulless.
💽 Eth0:	169 254 1 5 AlphaNet
O Eth1:	0 0 0 AlphaNet
0	
	Cancel Record will be Added

Create an M100 node

- 1. From the menu bar, select [+] next to the **Select Exchange** dropdown menu
- 2. Enter 1 in the Node Number field
 - this node number must be lower than AlphaCom node number
- 3. Select M100 Node from the Node Type drop-down menu

Enter other relevant data for the node.

△ Update Records	×
Exchange data	
Exchange Name: M100	Relate to Node: 2
Node Number: 1	
Type: M100 Node 💌	
Language: English 💌	
AlphaNet: Adm. Here	



Select Network

M100 Interface

-

A100K10955



Number

Cancel

Select destination node

Select

Node M100

7.3 Define Data Communication

- 1. Select the AlphaCom node created previously
- 2. Click the Exchange & System icon
- 3. Click Net Routing
- 4. Click Insert
- 5. Highlight M100 as the destination node and click Select
- 6. Under **Primary Route**, select **M100 Link** from the **ACDP Link** dropdown list
- 7. Click Close to close the Net Routing window

Source: AXE7	AlphaCom E
Description:	
Dia an Dar ta	
Primary Route	reach the destination, go to/via neighbour node:
Primary Route To Data:	reach the destination, go to/via neighbour node:
Primary Route To Data: ACDP Link:	reach the destination, go to/via neighbour node:
Primary Route To Data: ACDP Link: Node Number.	reach the destination, go to/via neighbour node:

7.4 Define Audio connections



- 1. Click the Exchange & System icon
- 2. Click Net Audio
- 3. Click Insert
- 4. Highlight M100 as the destination node and click Select
- 5. Enter 31 in the Physical no. field
- 6. Enter 1 in the Channel field
- 7. Click Close to close the Net Audio window

🛆 Update Re	ecords			
Source			Destination	
Source:	AXE7	AlphaCom E	Destination: M100	M100 Node
Description:			Description:	
Physical no:	31	Mod Pos Line	Physical no:	Mod Pos Line
		65 6 1	Use dynamic license	
Channel [.]				1
	Cancel Record	will be Changed		
	Ganoor	-		

8 audio c	hannels	16 audio	channels
Channel	Physical Number	Channel	Physical Number
1	31	10	28
2	32	11	29
3	33	12	30
4	34	13	19
5	35	14	20
6	36	15	21
7	25	16	22
8	26	17	23
9	27		

Repeat this procedure for the number of audio channels desired according to the tables below.

7.5 Define Global Numbers

All M100 numbers need to be defined in the AlphaCom XE as **global numbers**.

- 1. Click the Directory & Features icon
- 2. Click Insert
- Select Global Number for AlphaNet 83 from the Feature dropdown list
- 4. Enter 1 in the Node field
- 5. In the Directory Number field, enter the M100 directory number
- 6. In the Display Text field, enter an appropriate station name
- 7. Confirm by clicking **OK**

Repeat this procedure for all M100 directory numbers.

Dir No 6708 6709 9	Display Text Ringing Gr8 Ringing Gr9 Search	Feature No 109 / 58 109 / 59 28 / 0	Feature: 083 Global Number for AlphaNet ▼ Node 1 Parameter 2: Parameter 3 0
7 616 785 783 110 111	SendStdMail Service menu SetTime/Date SetVolume Station 10 Station 11 Station 12	17 / U 21 / 7 33 / O 38 / O 9 /10 9 /11 9 /12	Display Text: 100 M100 station Hide In Station Display (NFO)
113 114 115 116 117	Station 12 Station 14 Station 15 Station 16 Station 17	9 /13 9 /14 9 /15 9 /16 9 /17	AlphaNet Visibility: [Local *
118 119 102 120	Station 18 Station 19 Station 2 Station 20 Station 21	9 /18 9 /19 9 / 2 9 /20 0 /21	When COS NOT DK, Give Access To Group Vien COS OK, No Calls From Group
122 123 124 125 126 127	Station 21 Station 22 Station 23 Station 24 Station 25 Station 26 Station 27	9 /22 9 /22 9 /23 9 /24 9 /25 9 /26 9 /27	Establish audio link to exchange in AlphaNet. This dir no plus succeeding dialing is sent to remote exchange. Global number, dat <dir. 1-4="" digits="" no="">. Exchange prefix, diat. <dir. 1-2="" digits="" no=""> <remaining digits=""> Parameter 2 = Collect N more Digits (SIP)</remaining></dir.></dir.>
	Search Directo	ry Number:	Ok Cancel Insert Delete Close

7.6 Define a Global Group

As in a standard AlphaNet, Global Groups must be used if there are members in both exchanges, or if the group call is initiated from one exchange, with members in the other. In all cases, the Croup Call port (31) must be included as a member in order to establish the Audio Link.



Local Group

- 1. Click the Groups icon and select Local Groups
- 2. Select Station Group 2 from the list on the left and click Change
- 3. Click the Members tab
- 4. Scroll down in the Not Members list on the left and select Station 31
- 5. Click the right-arrow to move it to the Members list on the right
- 6. Click OK and close the window

Descriptiv	/e Name: S	tation Group 2				
Not Mem	ibers			Members		
Dir. no 132 133 134 135 136 137 138 139 140 141 142	Display Text Station 32 Station 33 Station 34 Station 35 Station 36 Station 36 Station 38 Station 39 Station 40 Station 41 Station 42	Station No 2 33 33 34 35 36 37 38 39 40 41 42 +	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	<u>Dir. no</u> 131	Display Text Station 31	Station No 31
			*			

① To prevent AGA positions from being connected during an All Call, delete these positions as members of Local Group Number 1.



Global Group

- 1. Click the Groups icon and select Global Groups
- 2. Select Global Group 1 from the list on the left and click Change
- 3. Click the Members tab
- 4. Under **Not Members** on the left, select node number **2** in the **Node** drop-down list
- 5. Select Station Group 2 in the Group list on the left
- 6. Click the right-arrow to move it to the Members list on the right
- 7. Click OK and close the window

Δ Update Records	
General Members Group Number: 1 Description Number: 1	
Not Members Node 2 Group 1 All Station Group 3 4 Station Group 4 5 Station Group 5 6 Station Group 6 7 Station Group 7 8 Station Group 8 9 Station Group 9	Members Node Group AXE7 2
OK Cancel Record will be Changed	

7.7 Updating the exchange

Set your PC's IP address to **169.254.1.2**. Connect a network cable from the computer to the **Eth0** port on the exchange.

- 1. In AlphaPro, click the **Start Communication Program** icon and log on.
- 2. Enter the default username and password:
 - Username: admin
 - Password: alphaadmin
- 3. Click the **SetNode** button and set the node number to **2**.
- 4. Click the **SendAll** button to upload all data to the exchange.
- 5. When uploading is completed, close the Communication Program **without resetting**.



8 Programming in AlphaWeb (AlphaCom)

The programming is done in the web-based tool, AlphaWeb.

- 1. Open a web browser and enter the IP address of the AlphaCom - Default IP address: 169.254.1.5
- 2. Log in using the same default username and password as for the AlphaPro.
- 3. Click the **System Configuration** tab and then click **Licensing** from the left menu.
- 4. Click **Insert new License Key** and enter a valid license key required to run the M100 interface software in AlphaCom and click **Insert Key**
- 5. Click the External Systems tab and click M100 from the left menu.

8.1 General Settings

- 1. Under General settings, enter 2 in the AMC Node field and set M100 Node to 1
- 2. Click Save

System Monitoring	System Configuration	System Maintenance	External Systems	Custom Scripts
▶ RingMaster	General			
▼M100	AlphaCom/	M100 General Peramet	ore Saved	
General Group Call Map				
 Module/Serial Por AGA-LUS Map 	t AMC Node:		2	
 Ringing Group 	M100 Node:		1	
10	M100 Odin N	roue:	None	•
	AlphaCom D	efault COS:	7FBF	
	AlphaCom De	efault Extended COS:	FFFF	
	Default Alarn	n Group:	0	
		Save	Read Configura	tion

8.2 Group Call Map

- 1. Click Group Call Map from the left menu
- 2. From the drop-down list, set F71 All Call to 1 9001
- 3. Click Save

▶ RingMaster	Group Ca	all Map			
▼M100	Setting M1	00 Group number F71 to	o AlphaCom Group N	Number: 1	
General Group Call Map					£.
Group Call Map Module/Serial Port AGA-LUS Map	t Number of	M100 Group Call Groups:		8 👻	
Ringing Group	F70 Emerg	ency Call:		-	
	F71 All Ca	E.		1	

8.3 Module/Serial Port

- 1. Click Module/Serial Port from the left menu
- 2. Under Input Table, for M100 Module number 1 select Serial0 from the AlphaCom Serial Port drop-down list
- 3. Click Save

▶ RingMaster	Module/Seri	al Port				
r Kingmaster						
▼M100	Setting Serial	Setting Serialport Serial0 to : Module1				
General						
Geoup Call Map Group Call Map Module/Serial Port AGA-LUS Map Ringing Group	Input Table					
	M100 Module	AlphaCom	Serial Port			
	0					
	1	Serial	0			
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
		Save	Read Configura	tion		

8.4 AGA-LUS Map

To enter settings for 8 or 16 audio channels, click AGA-LUS Map.

8.4.1 8 Audio Channels

- 1. Set Number of M100 LUS to 8
- 2. Set Group Call AGA to 1
- 3. Under Input Table enter the data according to the table below
- 4. Click Save

stem Monitoring System	em Configuration Sys	tem Maintenance	External Systems Custom Scrip	ts
▶ RingMaster	AGA-LUS Map			
• M100	Setting LUS num	ber 8 to AGA chan	nel: 9	
General Group Call Man				
Module/Serial Port AGA-LUS Map Ringing Group	Number of M100 L	US:	8 👻	
	Group Call AGA:		1 🔻	
		Save	Read Configuration	
	Input Table			
	M100 LUS	AlphaCom AG	A channel	
		2		
	1	2		
	2	3		
	1 2 3	3		
	1 2 3 4	2 3 4 5		
	1 2 3 4 5	2 3 4 5 6		
	1 2 3 4 5 6	2 3 4 5 6 7		
	1 2 3 4 5 6 7	2 3 4 5 6 7 8		

8.4.2 16 Audio Channels

- 1. Set Number of M100 LUS to 16
- 2. Set Group Call AGA to 1
- 3. Under Input Table enter the data according to the table below
- 4. Click Save

System Monitoring	System Confi	iguration	System Maintenance	External Systems	Custom Scripts	Help
▶ RingMaster	Α	GA-LUS I	Мар			
General Group Call Map	S	etting LUS	number 16 to AGA cha	annel: 17		
Module/Serial Po AGA-LUS Map	ort N	Number of M100 LUS: 16				
Ringing Group	c	Group Call AGA:				
			Save	Read Configura	ation	

Input Table

M100 LUS	AlphaCom AGA channel
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	10
10	11
11	12
12	13
13	14
14	15
15	16
16	17

8.5 Small Reset

To carry out a small reset:

- 1. Click the System Maintenance tab
- 2. Select System Recovery in the left menu
- 3. Click Small Reset
- 4. Confirm by clicking Yes

▶ System Upgrade	System F	Recovery			
▶ IP Station Upgra	de		1	nformation	
▶ Backup		Small Reset (h)		Docot main ann	licatione
▼ System Recover	y	Reboot		veset mann app	lications
		Chilly Restart			
	Load	Factory Defaults			

- Whenever a change to the AlphaWeb settings are done and Save is clicked, the software writes the changes to an XML file in the audio server/exchange. To make the audio server/exchange read the new XML file, a Small Reset has to be carried out.
- Any changes in the AlphaCom directory numbers list requires a Save under External Systems > General followed by a Small Reset in AlphaWeb.

9 Appendix A – Group Calls

In M100 there is a timer allowing a station to answer a voice paging through a Group Call. The system works in the following manner:

A station initiates a Group Call and makes a voice paging. The Group Call is then disconnected. By default the person paged has 30 seconds to dial the Group Call reply code: **FX**. During this time, the M100 exchange does not accept any other Group Calls. If a Group Call is made from the AlphaCom during this time, the Group Call will proceed normally in the AlphaCom system itself but the M100 will reject the Group Call. The initiator will get a message in the station display saying **Exchange missing** and can then choose to wait.

The **Answer-back timeout** timer can be adjusted in the M100 programming tool SysMain:

- 1. In the top menu, click Settings
- 2. Select Edit system information
- 3. Select the Timing tab
- 4. Set the required values for Answer-back timeout

🖄 Update system informa	tion	×
General Timing Paging p	arameters Desk parameters	1
Emergency Call timeout: All Call timeout: Group Call timeout: Answer-back timeout: Waiting time on busy: Grp Hunt Ind Call Time: Follow-me reset time:	300s Image: Station LED blink timing 30s Image: Station LED blink timing 5s Image: Station LED blink timing 60 Image: Station LED blink timing 15s Image: Station LED blink timing	
	<u>Q</u> K C <u>a</u> ncel <u>H</u> elp	

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