



# AL-7103 MKII Maritime Stabilized VSAT System

# **Technical Note**



# **SBC Upgrade Procedures**

Date: January 2012

Rev. \_

Document No.: TEC32-0235

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## 1 INTRODUCTION

#### 1.1 Purpose

This document establishes the SBC upgrade procedures, for in-storage/spare SBCs.

### 1.2 SBC Upgrade Checklist

Perform the Upgrade procedure as directed by the Routing Card, below.

#### 1.3 Required Tools and Equipment

- 1. Philips screwdrivers set
- 2. Open wrench, 5/16"
- 3. Open wrench, 3/16"
- 4. Wrench key, 3/16"
- 5. Hot glue gun
- 6. Tie wire
- 7. Tie Wraps.



# SBC UPGRADE ROUTING CARD

SBC:	P/N:	S/N:	MOD VER:	S/W VER:			
	Operation / Task / P	rocedure	Refer to Section No.	Performed By:	Date		
LAN c	able replacement		Section 2.1				
Memo	ory card tie-up and g	luing	Section 2.2				
Softw	are loading/update		Section 2.3				
Post l	Jpgrade Test		Section 2.4				
UPG	RADE Performed B	y:	Name	Dat	e		
Q.A.	Approved By:						

Name

Date



# 2 SBC UPGRADE PROCEDURES

### 2.1 SBC LAN Cable Replacement Procedure

Step	Description	
1.	Remove 10 screws securing the SBC's top cover.	
2.	Remove the SBC top cover.	

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Step	Description	
3.	Remove the internal LAN Cable, and replace it with a new LAN cable (P/N E11000039).	



## 2.2 SBC Memory Card Tie-Up and Gluing Procedure

Step	Description	
1.	Remove 10 screws securing the SBC Card to the right wall.	
2.	Carefully tilt and pull the SBC card out of the SBC, to the extent allowing access to the memory card.	

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Step	Description	
3.	Use a tie wire to secure the memory card.	
4.	Use a hot glue gun to apply glue in order to secure the FLASH memory.	

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Step	Description	
5.	Install the SBC card. Perform steps (1) thru (2) in a reverse logical order.	



Step	Description	
Step 6.	Description Install the SBC top cover. Fasten the screws securing the cover to the chassis.	

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#### 2.3 SBC Software Update Procedure

To update the SBC software, using the MtsDockCE utility residing on the CCU, perform the following procedure:





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5. At the MtsDockCE menu, select the **ACU** drop-menu, and then select the **Put Executable...** option.

(CE						
ost	ACU Edit	<u>W</u> indow	Help			
	Connect					
	Show Config	guration				
	Show Log					
	Get Executa	able				
	Put Executa	ble				
	Get Configu	ration				
	Put Configu	ration				
	Put Satellite	s				
	<u>Calibration</u>	5111	•			
	Get All					
	Put All Arch	ve				
	Put by Nam		_			
	- tu		-			
	Edit Networ	k Paramete	rs			
	Reboot					
				-	_	
				Close Window		
exer	utable file					

6. The following window is displayed, requesting to enter the SBC IP address. Enter the

SBC IP address and press OK to continue.

MtsDockCE	Put AC	U Exect	utable]			×
ThisHost	<u>A</u> CU	⊑dit	Window	Help		
Put ACU VXI	WORKS		Conr Net	<b>twork Ad</b> c	ACU X ress[: 192.9.200.10 Cancel (Esc) OK (Enter) Enter IP Address	
₹ Start	5 MtsDr	nck			Stop	

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7. A Browse window appears, requesting the location of the update file. Select the update file on the memory stick.

<u>T</u> hisHost	<u>A</u> CU	<u>E</u> dit	<u>W</u> indow	Help						
Copport to :		10 10								
.onnect to .	192.9.2	50.10								
Connected t IPU Kind: SC	o acu )M4450									
Software Ve	rsion: 4	32 21.	06.2007							
WORK HINE.	r uays -	Thours		9. 35% A				-	a i	
ielect archiv	e with 1	nie of fil	e its Selec	t archive w	th file of file	itself [		ok ×		
			🔍 M	y Device						
			Ap Con	plication Data	Storage	Card				
			6 M	Documents						
			😪 Ne	etwork	C Window	s				
			Pri	ogram Files						
			Name	¢	Type	Zip Arch	ve (*.zip)	-		
			<u> </u>							
<b>A</b>										
					Г	Stop	1			L
						Stop	1			 

8. The update file is copied into the SBC. After a successful update process, the following

screen is displayed:

MtsDockCE [Put A	IU Exect	utable]						×
ThisHost ACU	<u>E</u> dit	<u>W</u> indow	Help					
Put ACU VXWORKS	5							<b></b>
Connect to 192.9.3	200.10							
Connected to ACU CPU Kind: SOM445 Software Version: - Work Time: 18 hou	) 4.32 21.1 Irs 0 min	06.2007 utes						
Select archive with	file of fil	e itself						
Unpack vxworks from \USBDisk\V4.3 in ACU	32\VXW0	ORKS.ZIP						
Phase 1. Unpacking	; in temp	orary direct	ory					
Unpacked: vxWork	5 212509	91 bytes						
Phase 2. Copying fi	om tem	porary direct	ory					
Copied to: C:/vxWo	orks 212	5091 bytes						
****								
OK *****								
< <end>&gt;</end>								
T				Ī	Ilose Window			¥
ಶ Start 🔀 MtsD	ock						F <sub>тр</sub> 🕹 10:1	1 PM 🕑

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 The new settings will take effect only after SBC Reboot. You may reboot the SBC from the MtsDockCE program by selecting the ACU drop-menu, and then select the **Reboot**... option.

MtsDockCE		×
ThisHost	ACU Edit <u>W</u> indow He	ρ
	Connect	
	Show Configuration	
	Snow Log	
	Get Executable	
	Get Configuration	
	Put Configuration	
	Get Satellites	
	Put Satellites	
	Calibration	
	Get All	
	Put All Archive	
	Put by Name	
	Edit Network Parameters	
	Reboot	
		Close Window
Reboot ACU		
Start 1	<b>基</b> MtsDock	Fr. J. 4:04 AM

10. Confirm the reboot on the following dialog box:

MtsDockCE	[ACU Re	eboot]			×
ThisHost	<u>A</u> CU	Edit	<u>W</u> indow	Help	
ACU REBOO	г				
Connect to :	192.9.2	00.10			
Connected t CPU Kind: SC Software Ve Work Time:	o ACU DM4450 rsion: 4 1 days !	32 21. 5 hours	06.2007		
					Confirm Operation OK × To Reboot ACU?
4					Stop
🎝 Start 🚺	MtsDo	ock			F <sub>TP</sub> 🕹 4:04 AM 🔀

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### 2.4 Post-Upgrade Tests

- Install the upgraded SBC on the Master system.
- Perform basic-operation performance tests, as defined in Chapter 4 of the User Manual (MAN26-1327).

