MODIFICATION RECOMMENDED

U9405A-02 <u>S E R V I C E N O T E</u>

Supersedes: None

U9405A - i1000SFP systems

Serial Numbers: All

Current Digital card firmware version 06 does not support i2C/SPI "Read to File" function.

Parts Required: Parts will be order directly from factory. Required parts and tools:

- 1. Lattice download cable
- 2. Lattice programming software tool
- 3. Digital Card firmware Version 07 (H_Code.jed and L_Code.jed)

Contact :

kwan-wee_lee@agilent.com derek-cw_yu@agilent.com

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:	SERVICE NOTE CLASSIFICATION:					
MODIFICATION RECOMMENDED						
ACTION [[]] ON SPECIFIED FAILURE CATEGORY: x AGREEABLE TIME	STANDARDS LABOR: 1	.0 Hours				
LOCATION [[]] CUSTOMER INSTALLABLE CATEGORY: × ON-SITE (active On-site contract required) [[]] SERVICE CENTER [[]] CHANNEL PARTNER	SERVICE [[]] RETURN INVENTORY: [[]] SCRAP [[]] SEE TEXT	USED [[]] RETURN PARTS: [[]] SCRAP [[]] SEE TEXT				
AVAILABILITY: PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL: 4- March - 2016.					
[[]] Calibration Required X Calibration NOT Required	PRODUCT LINE: 80 AUTHOR: CW Yu					
ADDITIONAL INFORMATION:						

Order Parts directly from factory. Contact <u>kwan-wee_lee@agilent.com</u> or derek-cw_yu@agilent.com

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March 5, 2014

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Situation:

Current digital card firmware version 06 cannot support I2C/SPI "Read to file" function. All data will be written as Zero in the bin file thus all of digital cards need to be upgraded to version 07.

Solution/Action:

Follow the below instructions to upgrade Digital Card Firmware to Version 07

Installation of Lattice Programming Software

- 1. Run ispvmSystemV17.8.exe for installation
- 2. Plug download cable to controller USB port



3. Double click ispvmSystem.



4. Setup IO port and cable. Select Options→Cable and IO Port Setup

k		A	
LSC ispVMR System Version 18.1 - 0	C:\Users\chiaweyu\Desktop\Lattice.xcf		
File Edit View Project ispTools	Options Window Help		
	AutoScan Options Display USERCODE/UES Options Supporting TAG Server Options Monitor Download Cable Connection Image: Cable and I/O Port Setup Image: Cable and I/O Port Setup		
Status			
			*
4			

Page 3 of 13

5. Click "Auto Detect" for IO Port Setup and click "OK"



Connection of Download cable to Digital Card Low Channel IC

- 1. Turn off the i1000 system and remove the Digital Card.
- 2. Plug download cable to low channel connecter





- 3. Insert Digital card in card cage with the Download cable attached to it.
- 4. Leave space to allow the Download cable to be placed into the cardcage. If needed, remove the adjacent pin cards.
- 5. Turn on i1000D system power

Program firmware to Low Channel ICs

1. Select isp tools \rightarrow Scan chain

🔚 LSC ispVMR System Versi	on 18.1 - C:\Users\chiaweyu\Desktop\Lattice.xcf		81
File Edit View Project	ispTools Options Window Help		
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	Model 300 Programmer	Ctrl+M	
C:\Users\chiaweyu\Desl	Universal File Writer		
Index Device List		_	
Add New Device by selecting E	SVE Debugger		
	STAPL Debugger		
	STPL STAPL Processor		
	VME Processor		
	Scan Chain	F2	
	Scan <u>M</u> ixed Chain	F3	
	Board Diagnostics		
	Install/Uninstall LSC USB/Parallel Port Driver		
	BSDL Application Specific BSDL File Generator		
Status	Bepetitive Download		
If you have installed the driver, i	Convert Composite to Jedec File		•
This will give the operating syste	Add/Remove Device		
			· · ·
			·

Page 5 of 13 2. Low Channel IC will be detected and displayed

idex	Device List	FileName-NR-Length	Operation	Status	
3 1	LFXP6C		FLASH Erase, Progra	N/A	
2	LFXP6C		FLASH Erase, Progra	N/A	
3	LFXP6C		FLASH Erase, Progra	N/A	

3. Load Firmware to program

LSC is	pVMR System Version	17.8 - [New Scan Configurat	tion Setup*]		- • ×
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Index	Device List	FileName/IR-Length	Operation	Status	
	LFXP6C		FLASH Erase, Progra	N/A	
32	LFXP6C		FLASH Erase, Progra	N/A	
3	LFXP6C		FLASH Erase, Progra	N/A	
3 4	LFXP6C		FLASH Erase, Progra	N/A	
			Double click]	

Page 6 of 13

4. Click Browse and select Firmware file "L_CODE.jed"

Device Information	×
Part Description:	<u>O</u> K
Device:	Cancel
Select LFXP6C	Advanced
Device Full Name: Package:	Energy
LFXP6C All	Expand
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Instruction Register Length:	Name Date modified
Import 8 Re-initialize Part on Pro	Ogram Error L_CODE.jed 12/9/2010 3:31 PM
Operation:	
FLASH Erase, Program, Verify, Secure	
Device Access Options	
Device Access Options Flash Programming Mode	
Device Access Options Flash Programming Mode	File name: L_CODE.jed Open

5. Setup Operation options. Select "Flash Erase, Program, Verify, Secure"

Part Description:		<u>O</u> K
Device:		Cancel
Select LFXP6C		Advanced
Device Full Name:	Package:	
LFXP6C	All	Expand
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<u>Browse</u> E:\prog\Digital	_Board\A6\H\dur20.jed	
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6. Repeat Step3 to 5 to complete the setup for the rest of the Low Channel IC.



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🐟 2	LFXP6C	F:\project\DIGI7AL\cpH\la090331L\dur19 jet	FLASH Erase, Program, Verify	PASS	0x4FFC	
@ 3	LFXP6C	F:\project\DIGITAL\cpld\la\090331L\dur19.jed	FLASH Erase, Program, Verify	N/A	0x4FFC	
1 19	LFXP6C	F:\project\DIGI7AL\cpld\la\090331L\dur19.jed	FLASH Erase, Program, Verify	N/A	Ox4FFC	
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	Operation Done. No	errors				
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	Operation Done. No	errors.				
	-					

8. Programming finished, all IC must show Pass, else repeat the process or replace the digital card.

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ه 1	LFXP6C	F:\project\DIGITAL\cpH\la\090331L\dur19 jet	FLASH Erass, Program, Verify	PASS	0x4FFC		
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🚓 3	LFXP6C	F:\project\DIGITAL\cplt\la\090331L\dur19.jet	FLASH Erass, Program, Verify	PASS	0x4FFC		
4 (1)	LFXP6C	F:\project\DIGITAL\cplt\la\090331L\dur19.jet	FLASH Erass, Program, Verify	PASS	0x4FFC		

Connection of Download cable to Digital Card Low Channel IC

- 1. Turn off the i1000 system and remove the Digital Card.
- 2. Unplug download cable from Low Channel connecter and plug into the High Channel connecter



- 3. Insert Digital card in card cage with the Download cable attached to it.
- 4. Leave space to allow the Download cable to be placed into the cardcage. If needed, remove the adjacent pin cards.
- 5. Turn on i1000D system power

Program firmware to High Channel ICs

1. Select isp tools \rightarrow Scan chain

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Index Device List	o ispVM- <u>D</u> Lx Connect	-	
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	S STAPL Debugger		
	STPL STAPL Processor		
	VME Processor		
	Sean Chain	F2	
	🚟 Scan Mixed Chain	F3	
	Board Diagnostics		
	Install/Uninstall LSC USB/Parallel Port Driver		
	BSDL Application Specific BSDL File Generator		
Status	Repetitive Download		
If you have installed the driver.	♀」 Convert Composite to Jedec File		*
This will give the operating syste	Add/Remove Device		
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2. High Channel IC will be detected and displayed

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3. Load Firmware to program

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	LFXP6C		FLASH Erase, Progra	N/A	
2	LFXP6C		FLASH Erase, Progra	N/A	
3	LFXP6C		FLASH Erase, Progra	N/A	
3 4	LFXP6C		FLASH Erase, Progra	N/A	
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Page 10 of 13

4. Click Browse and select Firmware file "H_CODE.jed"

Part Description:		ок				
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5. Setup Operation options. Select "Flash Erase, Program, Verify, Secure"

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6. Repeat Step3 to 5 to complete the setup for the rest of the High Channel IC.

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nda	Device List	FileName/IR-Length	Operation	Status
p 1	LFXP6C	C:\Agilent_i1000\ATD\OSW_Verify\	FLASH Erase, Progra	N/A
2	LFXP6C	C:\Agilent_i1000\ATD\OSW_Verify\	FLASH Erase, Progra	N/A
3	LFXP6C	C:\Agilent_i1000\ATD\OSW_Verify\	FLASH Erase, Progra	N/A
\$ 4	LFXP6C	C:\Agilent_i1000\ATD\OSW_Verify\	FLASH Erase, Progra	N/A

7. Click "GO" to start programming

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🐵 1	LFXP6C	F:\project\DIGITAL\cpld\la\090331L\dur19 jet	FLASH Erass, Program, Verify	PASS	0x4FFC		
🐟 2	LFXP6C	F:\project\DIGITAL\cpld\la\090331L\dur19 jed	FLASH Erase, Program, Verify	PASS	0x4FFC		
🐵 3	LFXP6C	F:\project\DIGITAL\cpld\la\090331L\dur19.jed	FLASH Erass, Program, Verify	N/A	0x4FFC		
1	LFXP6C	F:\project\DIGITAL\cpld\la\090331L\dur19.jed	FLASH Erass, Program, Verify	N/A	0x4FFC		
Status					- I		
Check co	nfiguration setup: Start.		Processing Please Wait			4	
	JT≰G Chain ¥	erification. No Errors.					
Check co	nfiguration setup: Success	ful.					
Devicel I	FXP6C: FLASH Erass,Pr	ognun,Verify					
	Operation Done. No erro	rs					
Device2 I	FNP5C: FLASH Ersse,Pr	ogram, Verify					
	Operation Done. No arro	ra					
Device3 I	.FNP5C: FLASH Erace, Pr	ognam,Verify					

8. Programming finished, all IC must show Pass, else repeat the process or replace the digital card.

Index	Device List	FileName/IR-Length	Operation	Status	Checksum/CR	
9 1	LFXP6C	F:\project\DIGITAL\cplt\al090331L\dur19 jet	FLASH Erass, Program, Verify	PASS	0x4FFC	
2	LFXP6C	F:\pmject\DIGITAL\cplt\lal090331L\dur19 jet	FLASH Erase, Program, Verify	PASS	0x4FFC	
🕲 3	LFXP6C	F:\project\DIGITAL\cpld\lak090331L\dur19.jed	FLASH Erass, Program, Verify	PASS	0x4FFC	
9 9 4	LFXP6C	Frightnijechulich TALvopinhaku90.331Lvnur19.jed	FLASH Erss, frogram, Veriy	PASS	UX4PPC	
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Future Tracking Purpose

1. The EDC for all the U9401-66520 at the barcode serial number need to revise to 5409 The original label barcode of the serial number as Figure 1.0, the EDC cover with black permanent marker pen while add additional label 5409.



Figure 1.0

2. On top of the Lattice XP IC label, request to change from H6 & L6 to H7 & L7 as Figure 2.0



Figure 2.0



Confirm Digital Card Version

1. Run Card Diagnostics in i1000 software

🙀 Medalist i1000 <demo> <no emergency=""> (B250) <[Panel.atd]> (</no></demo>	No I/O Card) (No Con	trol Board) (No Mea	sure Board) - [Test]	of and data - Manual Total
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😂 🖬 🖬 🧎 📢 📓 🕮 🚑 📃 🛼 🖻	Reset Hardware	e Ctrl+R	1	
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Нарана Зл	Self-Tested Info	ormation Alt+F7	tal Times	0:1:8:14 D:H:M:S
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Fixture ID			Tested	812 pcs
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lest Sto	р			
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2. Confirm firmware version 07.

🛱 Card Diagnostics	
Message	
Date: 2014/02/25 Time: 17:39:16 Line: Machine: Factory: Department: User ID: 11000	Î
System Type: Press Down Control Card Version: 14	Ē
ard Diagnostics Detail Report	
Active Version Data: 04040404 Low Version Data: 0707077 High Version Data: 07070707 Slot 22,Digital Pin Card OK	
Active Version Data: 04040404 Low Version Data: 07070707 High Version Data: 07070707 Slot 23,Digital Pin Card OK Detive Version Data: 04040404	
Low Version Data: 07070707 High Version Data: 07070707 Slot 24,Digital Pin Card OK	
Active Version Data: 04040404 Low Version Data: 07070707 High Version Data: 07070707 Slot 25,Digital Pin Card OK	
Active Version Data: 04040404 Low Version Data: 07070707 High Version Data: 07070707 Not 26,Digital Pin Card OK	
	-

Low = "07|07|07|07" to represent the 4xLow Channel IC Firmware High = "07|07|07|07" to represent the 4xHigh Channel IC Firmware

Revision History:

Revision Number	Date	Author	Reason For Change
1.0		CW Yu	As published