## Upgrade MFG to 6G expander for 80H10323502A0

# 1 Upgrade group A expander

- Use Chenbro's Expander download cable link PC's UART to 80H10323502A0
   CN04
- (2) Open terminal Program(e.g. Tera Term)
- (3) Set Terminal to : Baud rate 115200, 8 bits data, none prity,1 stop bit

Please refer photo 1-1

Port:	COM1		ОК
Baud rate:	115200	~	
Data:	8 bit	~	Cancel
P <u>a</u> rity:	none	~	
<u>S</u> top:	1 bit	~	Help
Flow control:	none	~	

Photo 1-1

(4) Power on Expander system see terminal screen as Photo 1-2

COM1:115200baud - Tera Term	r VT	
Eile Edit Setup Control Window	Resize Help	
Spin-Up Control Command	spin SpinNo SpinTime SpinNo : 1-MaxDevice SpinTime : 1-16 sec	*
LED Group Test	ledg GroupNo LedType TimeoutSec GroupNo : O-MaxGroup LedType : 1=Activity 2=Locate 3=Fail TimeoutSec : 1-10.default 3s	
LED Test	led SlotNo LedType TimeoutSec SlotNo : O-MaxSlot.99=all LedType : l=Activity 2=Locate 3=Pail TimeoutSec : 1-10,default 3s	
Phy Status	phystatus	
System Information	878	
Resets the expander	reset	
Mfg DownLoad	mfadl	
Firmware DownLoad	fwdl	
Display Info for all phys	phyinfo Help[ ? ]	
Display/Reset all phy counters	counters reset(optional)	
Expander SAS address	sasaddr	
Firmware Revision	tea	
CLI Help	help command	
cnd >		*

#### Photo 1-2

### (5) Run MFG Image upgrade command (**"mfgdl" and "y"**) Please refer photo 1-3

OM1:115200baud - Tera Tern	i VT	66
: Edit Setup Control Window LED Group Test	Resize Help ledg GroupNo LedType TimeoutSec GroupNo - O-MarGroup	
	LedType : 1=Activity 2=Locate 3=Fail TimeoutSec : 1-10.default 3s	
LED Test	led SlotNo LedType TimeoutSec SlotNo : O-MaxSlot,99=all LedType : 1=Activity 2=Locate 3=Fail TimeoutSec : 1-10.default 3a	
Phy Status	phystatus	
System Information	SYS	
Resets the expander	reset	
Mfs DownLoad	mfædl	
Firmware DownLoad	fwdl	
Display Info for all phys	phyinfo Help[ ? ]	
Display/Reset all phy counters	counters reset(optional)	
Expander SAS address	sasaddr	
Firmware Revision	rev	
011 01	help.command	

(6) Please use transfer → XMODEM → Send file, selection mfg code .bin
(bp28\_d12io\_2in\_80H10323502A0\_A\_v9\_chenbro\_21.bin)
Please refer photo 1-4, photo 1-5

🛄 Tera Term - COM1 VT		
<u>File E</u> dit <u>S</u> etup C <u>o</u> ntrol	<u>Wi</u> ndow <u>H</u> elp	
<u>N</u> ew connection Alt+N	mfgdl	^
<u>L</u> og <u>S</u> end file	fwdl	
<u>T</u> ransfer	Kemmit	
Change directory	<u>XMODEM</u> ► <u>R</u> eceive nal)	
Print Alt+P	ZMODEM  Send B-Plus	
<u>D</u> isconnect	Quick-VAN 🕨	
E <u>x</u> it Alt+Q	help command	
cmd >mfgdl It will erase flash. Do you sure to run? (y/n) y Please Use XModem Protocol for File Transmission. Use Q Or q to quit Download before starting XModem.		
		>

Photo 1-4

Tera Term: XMODEM Send	? 🔀
搜尋位置①: 🗁 bp28_d12io_2in_80H10323502A0_4 🗸 🗸	⊨ 🗈 💣 🎟-
bp28_d12io_2in_80H10323502A0_A_v9_chenbro_21.bin	ei sas2xMfgEval.xml ai sas2xMfg.xsd
■ mfg.bat	DOS_CMD
e out.xml	
	>
檔案名稱(M): bp28_d12io_2in_80H10323502A0_A_v9_chen	開啓(0)
檔案類型(I): all	
	說明( <u>H</u> )
Option Checksum C <u>C</u> RC C 1 <u>K</u>	

Photo 1-5

(7) Use "**reset**" command reset expander system.

(8) Use command "**rev**" verify MFG 's product ID and version (e.g.

Product ID	:80H10323502A0A
Mfg For Firmware Version	: <b>09.xx</b>
Mfg Version	:21 [Build 1] )
Please refer photo 1-6	

🛄 Тега Тегт - СОМ1 ҰТ <u>File Edit Setup Control Window Help</u> cmd >rev ^ Hardware Revision Information: :0x0221 (Bond Option :28) :5 (B3) Component ID Component Revision Level :5 MFG Revision Information: Vendor ID Product ID Mfg For Firmware Version 80H10323502A0A 09.xx 21 [Build 1] Mfg Version Firmware Revision Information: Boot Image: Revision: 09.01 [Build 1] Family : 1 Active Image: Revision: 09.02 [Build 3] Family : 1 Backup Image: Баскир Image: Revision: 09.02 [Build 3] Family : 1 cmd ≯ < 100 >

Photo 1-6

# 2 Upgrade group B expander

- Use Chenbro's Expander download cable link PC's UART to 80H10323502A0
   CN06
- (2) Open terminal Program(e.g. Tera Term)
- (3) Set Terminal to : Baud rate 115200, 8 bits data, none prity,1 stop bit

Please refer photo 2-1

Port:	COM1		ОК
Baud rate:	115200	~	-
<u>)</u> ata:	8 bit	~	Cancel
<sup>p</sup> arity:	none	~	
<u>S</u> top:	1 bit	~	Help
low control:	none	~	



(4) Power on Expander system see terminal screen as Photo 2-2

COM1:115200baud - Tera Term	r VT	
Eile Edit Setup Control Window	Resize Help	
Spin-Up Control Command	spin SpinNo SpinTime SpinNo : 1-MaxDevice SpinTime : 1-16 sec	*
LED Group Test	ledg GroupNo LedType TimeoutSec GroupNo : O-MaxGroup LedType : 1=Activity 2=Locate 3=Fail TimeoutSec : 1-10.default 3s	
LED Test	led SlotNo LedType TimeoutSec SlotNo : O-MaxSlot.99=all LedType : l=Activity 2=Locate 3=Pail TimeoutSec : 1-10,default 3s	
Phy Status	phystatus	
System Information	878	
Resets the expander	reset	
Mfg DownLoad	mfadl	
Firmware DownLoad	fwdl	
Display Info for all phys	phyinfo Help[ ? ]	
Display/Reset all phy counters	counters reset(optional)	
Expander SAS address	sasaddr	
Firmware Revision	tea	
CLI Help	help command	
cnd >		*

#### Photo 1-2

### (5) Run MFG Image upgrade command (**"mfgdl" and "y"**) Please refer photo 2-3

OM1:115200baud - Tera Tern	i VT	66
: Edit Setup Control Window LED Group Test	Resize Help ledg GroupNo LedType TimeoutSec GroupNo - O-MarGroup	
	LedType : 1=Activity 2=Locate 3=Fail TimeoutSec : 1-10.default 3s	
LED Test	led SlotNo LedType TimeoutSec SlotNo : O-MaxSlot,99=all LedType : 1=Activity 2=Locate 3=Fail TimeoutSec : 1-10.default 3a	
Phy Status	phystatus	
System Information	SYS	
Resets the expander	reset	
Mfs DownLoad	mfædl	
Firmware DownLoad	fwdl	
Display Info for all phys	phyinfo Help[ ? ]	
Display/Reset all phy counters	counters reset(optional)	
Expander SAS address	sasaddr	
Firmware Revision	rev	
011 01	help.command	

Photo 2-3

(6) Please use transfer → XMODEM → Send file, selection mfg code .bin
(bp28\_d12io\_2in\_80H10323502A0\_B\_v9\_chenbro\_21.bin)
Please refer photo 2-4, photo 2-5

🛄 Tera Term - COM1 VI		
<u>File E</u> dit <u>S</u> etup C <u>o</u> ntrol <u>W</u>	indow <u>H</u> elp	
<u>N</u> ew connection Alt+N	mfgdl	^
<u>L</u> og <u>S</u> end file	fwdl	
<u>T</u> ransfer 🕨	<u>K</u> ermit ▶ ÞHelp[?]	
<u>C</u> hange directory	XMODEM <u>R</u> eceive nal)	
Print Alt+P	ZMODEM  Send B-Plus	
<u>D</u> isconnect	Quick-VAN 🕨	
E <u>x</u> it Alt+Q	help command	
cmd >mfgdl It will erase flash. Do you sure to run? (y/n) y Please Use XModem Protocol for File Transmission. Use Q Or q to quit Download before starting XModem.		
		>

Photo 2-4

Tera Term: XMODEM Send	? 🛛
搜尋位置①: 🗁 bp28_d12io_2in_80H10323502A0_E 🗸 🔄	È 💣 🎹 -
bp28_d12io_2in_80H10323502A0_B_v9_chenbro_21.bin	s2xMfgEval.xml s2xMfg.xsd DS_CMD
	>
檔案名稱(M): bp28_d12io_2in_80H10323502A0_B_v9_chen	開啓(0)
檔案類型(T): all ▼	取消
	說明(H)
Option © Checksum © <u>C</u> RC © 1 <u>K</u>	

Photo 2-5

- (7) Use "**reset**" command reset expander system.
- (8) Use command "rev" verify MFG 's product ID and version

(e.g.

Product ID	: <b>80H10323502A0B</b>
Mfg For Firmware Version	:09.xx
Mfg Version	:21 [Build 1] )
aca rafar photo 2 6	

Please refer photo 2-6

Tera Term - COM1 VI	
<u>File E</u> dit <u>S</u> etup C <u>o</u> ntrol <u>W</u> indow <u>H</u> elp	
cmd >rev	•
Hardware Revision Information:	
Component ID :0x0221 (Bond Option :28) Component Revision Level :5 (B3)	
MFG Revision Information:	
Vendor ID : Product ID :80H10323502A0B Mfg For Firmware Version :09.xx Mfg Version :21 [Build 1]	
Firmware Revision Information:	
Boot Image: Revision: 09.01 [Build 1] Family : 1 Active Image: Revision: 09.02 [Build 3] Family : 1 Backup Image: Revision: 09.02 [Build 3]	
Family : 1 cmd >	×
	× .::

Photo 2-6