

UPDATE GUIDE

FA-1010 Frame Synchronizer

FA-10RU FA-10AES-BL/UBL/UBLC FA-10ANA-AUD FA-10GPI FA-10DCCRU

2nd Edition (FA-1010 Updater: Ver. 2.2.1 or higher)

FOR-A COMPANY LIMITED

Edition Revision History

Edit.	Rev.	Date	Description	Section
1	-	2014/02/05	First edition	
2	-	2014/06/30	FA-10DCCRU update instruction added.	1, 2, 6
			Figures replaced.	4, 5, 6, 7
			Update notes added.	4, 5
			Appendix added.	Appendix A -F

FA-1010/FA-10RU/FA-10AES Update Guide Revision History

FA-1010/FA-10RU/FA-10DCCRU Versions and Supported Options

FA-1010	FA-10RU	FA-10DCCRU	Supported Option	Note
FPGA1-4: 1.00 or higher FPGA5: 1.00 or higher Software: 1.00 or higher	-	-	FA-10PS	First edition
FPGA1-4: 1.10 or higher FPGA5: 1.10 or higher Software: 1.10 or higher	-	-		
FPGA1-4: 2.00 or higher FPGA5: 2.00 or higher Software: 1.10 or higher	-	-	FA-10AES-BL FA-10AES-UBL FA-10AES-UBLC	Audio option supported version
FPGA1-4: 2.10 or higher FPGA5: 2.10 or higher Software: 2.20 or higher	FPGA1, 2: 1.00 Software: 1.00, 1.01	FPGA1, 2: 1.00 Software: 1.00 (Limited functions depending on software version of connected device*)	FA-10RU FA-AUX30 FA-10GPI FA-10ANA-AUD	FA-10RU, FA-10AUX30, and FA-10GPI supported version
FPGA1-4: 2.20 FPGA5: 3.00 Software: 3.00	FPGA1, 2: 1.00 Software: 2.00	FPGA1, 2: 1.00 Software: 1.00		BY-PASS/OPERATE, Y Level and SPLIT functions added

FA-10DCCRU/Connected Device Software Version Correspondence

FA-1010	FA-9520 (FA-9520Mode)	FA-9520 (FA-9500Mode)	FA-9500	FA-10DCCRU Functions
Software: 1.00-2.01	Software: 1.00-2.01	Software: 7.00-8.01	Software: 1.00-8.00	Connection not possible.
Software: 2.20-2.22	Software: 2.02 or higher	Software: 8.02 or higher	Software: 8.01 or higher	BY-PASS/OPERATE, Y Level, and SPLIT are non-functional.
Software: 3.00 or higher				All functions are functional.

Table of Contents

1. Equipment and System Requirements	5
2. Workflow	6
 Hardware Option Installation Common Installation Procedures for All Hardware Options Top Panel Removal Blank Panel Removal Installation Procedure for Each Option 2-1. FA-10AES-BL 2-2. FA-10AES-UBL 3-2-3. FA-10AES-UBLC 3-2-4. FA-10ANA-AUD 3-2-5. FA-10GPI 3-2-6. FA-10PS 3-2-6-1. FA-10PS Verification 	9 9 9 10 10 10 10 10 11 12 13 13 14 16
 4. FA-1010 Update 4-1. Software Update (PM9222) (Required Time: 1 sec.)	17 17 18 19
 5. FA-10RU Update 5-1. Software Update (PM9292) (Required Time: 1 min.) 5-2. CPLD Update (PM9290,PM9291) (Required Time: 2min.) 	20 20 21
 6. FA-10DCCRU Update 6-1. Software Update (PM9316) (Required Time: 3 min.) 6-2. CPLD Update (PM9314, PM9315) (Required Time: 3 min.) 	
 7. FA-10AES-BL/UBL Update 7-1. FPGA(FPGA 2) Update (PM 9224)(Required Time: 2min.) 7-2. CPLD Update (PM 9225) (Required Time: 30 sec.) 	24 24 25
Appendix A. Creating FA-1010 Backup Data A-1. Utility A-1-1. Event Control A-1-1. Event Name Edit A-1-2. Backup Parameter A-1-3. Event Data Backup	
Appendix B. Creating FA-10RU Backup Data B-1. Backup & Restore B-1-1. Configuration Data Backup B-1-2. Event Data Backup	
Appendix C. Creating FA-10DCCRU Backup Data	
Appendix D. Verifying the FA-1010 Version D-1. Status (GUI) D-2. Status (Web)	

D-2-1. Unit Status	3
Appendix E. Verifying the FA-10RU Version	4
E-1. FA-10RU INFORMATION (Front Panel) E-2. Information (Web)	4 4
Appendix F. Verifying the FA-10DCCRU Version	5
F-1. SYSTEM Setting (Front Panel) F-1-1. System Settings	5 6
F-2. Information (Web)	7

1. Equipment and System Requirements

To update FPGA/DSP (FA-1010/FA-10RU/FA-10DCCRU/FA-10AES) *Normally, updates can be achieved with the following equipment.

- Hormany, apaatoo o	an be aemoved man	and rene ming equipment	
1.PC	2. FA-1010 Updater (Software)	3. One crossover LAN cable, or 2 straight through LAN cables.	4. Hub
	FA1010Updater.exe		-

To update CPLD (FA-1010/FA-10RU/ FA-10DCCRU/FA-10AES) *Required only when updating CPLD.

	passing 0		
1.PC	2. Quartus II Programmer (Software)	3. Byte Blaster or USB Blaster	4. 3x6 Phillips screwdriver
	(Software)	USB Blastel	
	quartus_pgmw.exe		

<Required equipment for hardware option installation>



<Default IP address>

Product	Default IP address
FA-1010	192.168.0.10
FA-10RU	192.168.0.100
FA-10DCCRU	192.168.0.100

2. Workflow

FA-1010/FA-10RU/FA-10DCCRU updates can be performed as follows.

1) Back up the settings and event data

Back up settings and event data before updating software.

See the respective operation manuals for details on the backup procedure.

* If backup is not needed, e.g. settings have not changed from default settings, skip this step and go to step 2).

Reference Notation in Operation Manuals

(Only section numbers are given for reference, since pages may vary depending on edition or the revision numbers of manuals.)

FA-1010 (Default IP address: 192.168.0.10)

- 1. How to open associated GUI setting pages: Appendix A-1. "Utility" (or FA-1010 Operation Manual, Sec. 4-6)
- 2. How to save setting data: Appendix A-1-2. "Backup Parameter" (or FA-1010 Operation Manual, Sec. 4-6-2) 3. How to save event data:

Appendix A-1-3. "Event Data Backup" (or FA-1010 Operation Manual, Sec. 4-6-3)

FA-10RU (Default IP address: 192.168.0.100)

- 1. How to open associated GUI setting pages: Appendix B-1. "Backup & Restore" (or FA-10RU Operation Manual, Sec. 10-7)
- 2. How to save setting data:
- Appendix B-1-1. "Configuration Data Backup" (or FA-10RU Operation Manual, Sec. 10-7-1) 3. How to save event data:
- Appendix B-1-2. "Event Data Backup" (or FA-10RU Operation Manual, Sec. 10-7-2)

FA-10DCCRU (Default IP address: 192.168.0.100)

1. How to open associated GUI setting pages:

- Appendix C-1. "Backup & Restore" (or FA-10DCCRU Operation Manual, Sec. 5-3-7) 2. How to save setting data:
- Appendix C-1. "Backup & Restore ♦ Backing Up All FA-10DCCRU Settings" (or FA-10DCCRU Operation Manual, Sec. 5-3-7)
- 3. How to save event data: Appendix C-1. "Backup & Restore ♦ Saving Event Data" (or FA-10DCCRU Operation Manual, Sec. 5-3-7)

[The FA-1010 IP address has been changed and is unknown]

If the IP address has been changed and the new address is unknown, open the FA-1010 top panel, then set DIP switch DS2-3 to ON. (DS2 address on the card: W.5, 2.0)

The FA-1010 can then be accessed using the default IP address (192.168.0.10). Be sure to set DS2-3 back to OFF after the update has been completed.



Fig. 1 Set DIP switch DS2-3 to ON

2) Install hardware option/s

When installing any additional hardware options on-site, follow the instructions given in Sec. 3. "Hardware Option Installation".

3) Update Software

Update FA-1010/FA-10RU/FA-10DCCRU programs in the following order. FA-1010: FA-1010 update (1. SOFT > 2. FPGA1, 2, 3, 4 \rightarrow 3. CPLD) FA-10RU: FA-10RU update (1. SOFT > 2. CPLD1, 2) FA-10DCCRU: FA-10DCCRU update (1. SOFT > 2. CPLD1, 2) FA-10AES-BL/UBL/UBLC: FA-10AES update (1. FPGA2 > 2. CPLD) * FA-10AES-UBLC, FA-10ANA-AUD, and FA-10GPI options do not require software updates.

4) Initialize the unit

Once software updates are complete, initialize the FA-1010/FA-10RU/FA-10DCCRU.

• Initializing the FA-1010

- 1. Turn the power on while pressing down the INITIALIZATION button (Fig. 2).
- 2. The FA-1010 beeps when it is turned on. Continue pressing the button. Verify all LEDs on the front panel are lit during the initialization.
- 3. The FA-1010 beeps twice when the initialization is complete. Do not turn the power of the unit on until at least 5 seconds after the beep.

(OPTION	I SLO	T		
INSTALL	A 	B	c	D	
AUDIO IN	4 II				Turn the power on while pressing. Continue pressing until the unit beeps twice

Fig. 2 FA-1010 INITIALIZATION button location

• Initializing the FA-10RU

Turn the power on while pressing the UNITY buttons under F2 and F4 to initialize the unit. The UNIT MU SELECT menu will appear when the initialization is complete.

UNIT 1 F1 Main Ur IP Address NAME:FA-10	ID MU SELECT hit ID: 1 s:192.168. 0. 10 310	P801
Push F3 U Push F4 U	nity SW Connect to Main nity SW Cancel	Unit
=dr.a	REMOTE CONTROL UNIT	FA-10RU

Fig. 3. FA-10RU screen display after initialization.

• Initializing the FA-10DCCRU

Turn the power on while pressing the GAMMA BLACK and SEPIA buttons on the lower right of the front panel simultaneously to initialize the unit. "Factory Setting" will disappear and "Connecting" will appear when the initialization is complete.

5) Reinstall backup data

After the initialization is complete, reinstall the backup data to the FA-1010/FA-10RU/ FA-10DCCRU.

Refer to the respective sections described under "Reference in Operation Manuals" in step 1) for details on how to reinstall backups.

(* If the user has approved the default settings of the unit, the procedure is complete in step 4.)

IMPORTANT
If DIP switch DS2-3 is ON, be sure to set it back to OFF after step 4).

6) Verify versions after updating

Refer to the following manuals and sections to verify versions.

FA-1010*	GUI: Appendix D-1. "Status (GUI)" (or FA-1010 Operation Manual, Sec.
	4-5)
	Web: Appendix D-2. "Status (Web)" (or FA-1010 Operation Manual, Sec.
	5-5)
FA-10RU	Front panel: Appendix E-1. "FA-10RU INFORMATION (Front Panel)" (or
	FA-10RU Operation Manual, Sec. 9-1-7)
	Web: Appendix E-2. "Information (Web)" (or FA-10RU Operation Manual,
	Sec. 10-1)
FA-10DCCRU	Front panel: Appendix F-1. "SYSTEM Settings (Front Panel)"
	(or FA-10DCCRU Operation Manual, Sec. 8)
	Web: Appendix F-2. "Information (Web)"
	(or FA-10DCCRU Operation Manual, Sec. 5-3-1)

*FA-10AES version can also be verified here.

IMPORTANT

The power of the unit should be turned off when installing hardware options. This update guide describes a hardware installation into Option Slot A. Installation into Option Slots B to D can be performed in the same manner.

3-1. Common Installation Procedures for All Hardware Options

1) Top Panel Removal

Remove the top panel from the FA-1010. (Remove the 3 screws on the top panel, and 2 screws each from both side panels. Remove rack ears if attached.)

* All removed screws (11 total) will be used to close the top panel. Keep the screws in a safe place.

2) Blank Panel Removal

Remove the blank panel covering the slot into which you are going to install the option card on the FA-1010 rear panel (Fig. 4).



Fig. 4 Blank panel removal

IMPORTANT

When removing screws securing the blank panel, hold the blank panel so that it does not fall inside the casing. (Fig. 5) **Turn the power of the unit off** before doing this.





3-2. Installation Procedure for Each Option

3-2-1. FA-10AES-BL

Nest connectors on the option card into the slot, align screw holes, then secure the card with the supplied double-SEMS screws. Connect the PWA cable (Fig. 6). Secure the option card to the rear panel with the binding screws removed under Common Installation/Removal Procedure.



Fig. 6 FA-10AES-BL PWA Wiring

3-2-2. FA-10AES-UBL

Nest connectors on the option card into the slot, align screw holes, then secure the card with the supplied double-SEMS screws. Connect the PWA cable to CN8 (Fig.7). Secure the option card to the rear panel with the binding screws removed in Common Installation/Removal Procedure.



Fig. 7 FA-10AES-UBL PWA Wiring

3-2-3. FA-10AES-UBLC

The FA-10AES-UBLC option is an additional PWA cable that attaches to the FA-10AES-UBL. The FA-10AES-UBLC can be attached after the FA-10AES-UBL is mounted.

Connect the PWA cable connector to CN9 (Fig. 8). Secure the option card to the rear panel with the binding screws removed in Common Installation/Removal Procedure.



Fig. 8 FA-10AES-UBLC PWA Wiring

3-2-4. FA-10ANA-AUD

* The FA-10ANA-AUD can only be installed into Slot D, not to other slots. Connect PWA connectors as shown below (Fig. 9). Secure the option card to the rear panel with the binding screws removed in Common Installation/Removal Procedure.



Fig. 9 FA-10ANA-AUD PWA Wiring

After the installation is complete, set DIP switch DS2-2 to ON.



Fig. 10 Set DIP switch DS2-2 to ON

3-2-5. FA-10GPI

- 1) Nest connectors on the option card into the slot, align screw holes, then lightly secure the card with the supplied double-SEMS screws.
- 2) Secure the option card to the rear panel with the binding screws removed in Common Installation/Removal Procedure.
- 3) Tighten double-SEMS screws.



Fig. 11 FA-10GPI Installation



1) Attach the ferrite core to leads A and B of PWA1658-2.



- 2) Connect leads A, B, and I (grounding terminal) of the cable to the AC inlet.
- 3) Connect **C** of the cable to the power switch. (Connect the black cable to the top, and the red cable to the bottom terminals.)
- 4) Connect D and H of the cable to bosses. (See the figure at right) Boss locations are shown in the figure below. (Circled)
- 5) Place the insulation sheet (bottom) on the chassis in the area shown with thick border lines in the figure below. Place cable PWA1658-2 under the insulation sheet.



- 6) Place the power supply unit on the insulation sheet (bottom) placed in step 7). Then secure the power supply unit with the supplied studs screwed to the bosses.
- 7) Secure the (top) insulation sheet over the power supply unit with the supplied 3x6 mm binding screws. Switch



- 8) Connect connector E (numbered 401) of cable PWA1658-2 to CN 1 (3-pin) on the power supply unit.
- 9) Connect connector F (numbered 451) to CN 4 (8-pin).
- 10) Connect connector G (numbered 129) to CN 29 (6-pin) on the main card.
- 11) Fasten cables using the supplied cable ties and cable tie mounts as shown in the figure below.





Fig. c

12) Attach the DANGER and grounding stickers as shown below.

* Fan unit not installed in above figure.



13) Set DS2 (see the above figure) DIP switch 1 to ON.



Push switch 1 up.

3-2-6-1. FA-10PS Verification

- 1) Connect an AC cord to FA-1010 AC IN 1 and turn the power on.
- 2) Verify that the DC Power 2 LED on the front panel is lit red.
- 3) Connect another AC cord to AC IN 2 while the power is on, then verify that the DC Power 2 LED turns green.
- Verify the voltage of the installed FA-10PS to be +12V (± 0.2V). Adjust the voltage if it exceeds the above allowance using the power supply voltage adjustor VR51.
- Connect a Windows 7 or 8 PC to the same network with the FA-1010. Start-up the FA-1010 Windows GUI on the PC. Enter the FA-1010 IP address (default is 192.168.0.10), then click Connect.
- 6) Once the connection is established, open the Status tab.
- 7) Verify that **DC Power 2** under "**Power Supply Status**" is indicated as **Normal**. (Abnormal if an AC cord is not connected to AC IN 2.)
- 8) Attach the Serial No. and Model name stickers as shown below.



9) Close the top panel.

4. FA-1010 Update

4-1. Software Update (PM9222) (Required Time: 1 sec.)

- 1. Connect the FA-1010 and PC using a LAN cable.
- 2. Start the FA1010 Updater.exe file (Fig. 12).



Fig. 12. FA1010Updater.exe

- 3. Enter the IP address (default IP address: 192.168.0.10)(Fig. 13 ①).
- 4. Check [FA-1010 Soft] under [Target] (Fig. 13 2).
- 5. Select the latest version software under [Update File] (Fig. 13 ③).
- Click [Update] to start updating. (Fig. 13 ④). The selected file needs to be in .ais format with a file name that begins with "FA1010_". If an error occurs, verify that the data is FA-1010 software data.
- 7. A message appears when the update is complete.

A FA-1010 Program	n Upd 👝 🕻	• 💌	
IP Address 192 Target	. 168 . 0 .	10<	① Enter the IP address
 FA-1010 Soft FA-1010 FPGA FA-10RU Soft FA-10DCCRU S Option A Option C Option 	1/2/3/4 Soft © Option B © Option D		② Check FA-1010 Soft
FA-10AES-*	FPGA	T	
Update <u>F</u> ile Update Version : 2.2	2.1		 ③ Select the latest software data ④ Click Update
Ready Sent data	a:		

Fig. 13 FA-1010 Program Updater dialog (for Software update settings)

4-2. FPGA Update (PM9221) (Required Time: 7 minutes)

Updating FPGA (FPGA 1, 2, 3, 4) (PM9221)

- 1. Connect the FA-1010 and PC using a LAN cable.
- 2. Start the FA1010Updater.exe file (Fig. 12).
- 3. Enter the IP address. (default IP address: 192.168.0.10)(Fig. 14 ①).
- 4. Check [FPGA1/2/3/4] under [Target] (Fig. 14 ②).
- 5. Select the latest FPGA data under [Update File] (Fig. 14 ③).
- Click [Update] to start updating (Fig. 14 ④).
 The selected file needs to be in .pof format with a file name that begins with "FA1010_".
 If an error occurs, verify that the data is FA-1010 FPGA data.
- 7. A message appears when the update is complete.

💁 FA-1010 Program Upd 👝 🗉 💌	
IP Address 192 . 168 . 0 . 10 <	① Enter the IP address
- <u>T</u> arget	
FA-1010 Soft	
FA-1010 FPGA 1/2/3/4	② Check FA-1010 FPGA 1/2/3/4
FA-10RU Soft	
FA-10DCCRU Soft	
Option A Option B	
💿 Option C 💿 Option D	
Option	
FA-10AES-*	
🔘 FPGA	
· · · · · · · · · · · · · · · · · · ·	
	3 Select the latest FPGA data
Update <	Glick Update
Version : 2.2.1	
Roady Sont data:	
Ready Sent data.	
Fig. 14 FA-1010 Program Updater dialog	

(for FPGA update settings)

Updating CPLD (FPGA5) (PM9223)

- 1. Remove the top panel of the FA-1010.
- 2. Connect the ByteBlaster II to the parallel port of a PC (or USB Blaster cable to a USB port).
- 3. Connect the ByteBlaster II plug to CN24 (Card address: X.5, 4.0) (Fig. 15).
- 4. Start Quartus II Programmer.
- 5. Verify that **ByteBlasterII** (or **USB Blaster**) is selected (Fig. 16 ①)
- 6. If ByteBlaster II that is connected to PC is not selected, or "No Hardware" is displayed, click [Hardware Setup](Fig. 16 ②) and select the connected ByteBlasterII (or USB Blaster).
 - * USB Blasters will not appear under the **[Hardware Setup]** list, unless they have been connected beforehand.
- 7. Select [JTAG] under [Mode] (Fig. 16 ③).
- 8. Turn the power of the FA-1010 on.
- 9. Click [Auto Detect] (Fig. 16 ④).
- 10. If connected devices are displayed on the screen, select "EPM2210F256" displayed under [Device] (Fig. 16 ⑤), then click [Change File] and select the latest pof file (Fig. 16 ⑥).
- 11. Check [Program/Configure] and [Verify] (Fig. 16 ⑦).
- 12. Click [Start] to start updating (Fig. 16 (8))
- 13. If **[Progress]** indicates 100% (Fig. 16 (9)) and no error sign (in red) appears on the status bar at the bottom of the window (Fig. 16 (9)), the update is complete.
- 14. Turn the power of the FA-1010 off, and disconnect the cable from CN24.
- 15. Close the top panel of the FA-1010.



Align red cable (or PIN 1 sign) to pin 1

Fig. 15 ByteBlaster II (or USB Blaster) connection



Fig. 16 CPLD Update Screen (FA-1010)

5. FA-10RU Update

5-1. Software Update (PM9292) (Required Time: 1 min.)

- 1. Connect the FA-10RU and PC using a LAN cable.
- 2. Start FA1010Updater.exe (Fig. 12).
- 3. Enter the IP address (default IP address: 192.168.0.100)(Fig. 17 ①).
- 4. Check [FA-10RU Soft] under [Target] (Fig. 17 2).
- 5. Select the latest version software under [Update File] (Fig. 17 ③).
- Click [Update] to start updating (Fig. 17 ④). The selected file needs to be in .ais format with a file name that begins with "FA10RU_". If an error occurs, verify that the data is FA-10RU software data.
- 7. A message appears when the update is complete.

💁 FA-1010 Program Upd 👝 📼 💌	
IP Address 192 . 168 . 0 . 100 <	① Enter the IP address
 FA-1010 Soft FA-1010 FPGA 1/2/3/4 FA-10RU Soft FA-10DCCRU Soft Option A Option B Option C Option D 	②Check FA-10RU Soft
Option FA-10AES-* FPGA	
Update <u>F</u> ile	③ Select the latest software data
Update <	Click Update
Ready Sent data:	

Fig. 17 FA-1010 Program Updater dialog (for FA-10RU software update settings)

Updating CPLD1, 2 (PM9290, PM9291)

- 1. Remove the top panel of the FA-10RU.
- 2. Connect the ByteBlaster II to the parallel port of a PC (or USB Blaster cable to a USB port).
- 3. Connect the ByteBlaster II plug to CN1 (Card address: N.0, 1.0) (Fig. 15).
- 4. Start Quartus II Programmer.
- 5. Verify that **ByteBlasterII** (or **USB Blaster**) is selected (Fig. 18 ①).
 - If ByteBlaster II that is connected to PC is not selected, or "No Hardware" is displayed, click [Hardware Setup] (Fig. 18 ②) and select the connected ByteBlasterII (or USB Blaster).
 - * USB Blasters will not appear under the **[Hardware Setup]** list, unless they have been connected beforehand.
- 6. Select [JTAG] under [Mode] (Fig. 18 ③).
- 7. Turn the power of the FA-10RU on.
- 8. Click [Auto Detect] (Fig. 18 ④).
- If connected devices are displayed on the screen, select "EPM2210F256" displayed under [Device] (Fig. 18 (5)), then click [Change File] and select the latest pof file (PM9290-X.pof) (Fig. 18 (5)).
- 10. Select "EPM2210F256" displayed under [Device] (Fig. 18 ⑦), then click [Change File] and select the latest pof file (PM9291-X.pof).
- 11. Check [Program/Configure] and [Verify] (Fig. 18 (3)).
- 12. Click [Start] to start updating (Fig. 18 (9).
- 13. If **[Progress]** indicates 100% (Fig. 18 ^(m)) and no error sign (in red) appears on the status bar at the bottom of the window (Fig. 18 ^(m)), the update is complete.
- 14. Turn the power of the FA-10RU off, and disconnect the cable from CN1.
- 15. Close the top panel of the FA-10RU.



Fig. 18 CPLD Update Screen (FA-10RU)

6. FA-10DCCRU Update

6-1. Software Update (PM9316) (Required Time: 3 min.)

- 1. Connect the FA-10DCCRU and PC using a LAN cable.
- 2. Start the FA1010Updater.exe file (Fig. 12).
- 3. Enter the IP address. (default IP address: 192.168.0.100) (Fig. 19 ①).
- 4. Check [FA-10DCCRU Soft] under [Target] (Fig.19 2).
- 5. Select the latest version software under [Update File] (Fig. 19 ③).
- Click [Update] to start updating (Fig. 19 ④). The selected file needs to be in .ais format with a file name that begins with "FA10DCCRU_".

If an error occurs, verify that the data is FA-10DCCRU software data.

- 7. A message appears when the update is complete.
- 8. After ensuring that the message "**Please Reboot**" is displayed on the front panel screen, reboot the unit.

💁 FA-1010 Program Upd 👝 🗉			
IP Address 192 . 168 . 0 . Target	100	② Enter the IP address	
 FA-1010 Soft FA-1010 FPGA 1/2/3/4 FA-10RU Soft 			
FA-10DCCRU Soft		Check FA-10DCCRU Soft	
Option A Option B			
Option C Option D			
FA-10AES-*	-		
O FPGA			
Update <u>F</u> ile		3 Select the latest software data	ta
	4) Click Update	
version : 2.2.1			
Ready Sent data:			

Fig. 19 FA-1010 Program Updater dialog (for FA-10DCCRU software update settings)

Updating CPLD1, 2 (PM9314, PM9315)

- 1. Remove the top panel of the FA-10DCCRU.
- 2. Connect the ByteBlaster II to the parallel port of a PC (or USB Blaster cable to a USB port).
- 3. Connect the ByteBlaster II plug to CN1 (Card address: P.8, 3.0) (Fig. 15).
- 4. Start Quartus II Programmer.
- 5. Verify that **ByteBlasterII** (or **USB Blaster**) is selected (Fig. 20 ①)
- 6. If ByteBlaster II that is connected to PC is not selected, or "No Hardware" is displayed, click [Hardware Setup](Fig. 20 ②) and select the connected ByteBlasterII (or USB Blaster).
 - * USB Blasters will not appear under the **[Hardware Setup]** list, unless they have been connected beforehand.
- 7. Select [JTAG] under [Mode] (Fig. 20 ③).
- 8. Turn the power of the FA-10DCCRU on.
- 9. Click [Auto Detect] (Fig. 20 ④).
- 10.After connected devices are displayed on the screen, select the upper "EPM2210F256" displayed under [Device] (Fig. 20 ⑤), then click [Change File] and select the latest pof file (PM9314-X) (Fig. 20 ⑥).
- 11.Select the lower "EPM2210F256" displayed under [Device] (Fig. 20 ⑦), then click [Change File] and select the latest pof file (PM9315-X).
- 12. Check [Program/Configure] and [Verify] (Fig. 20 (8)).
- 13. Click [Start] to start updating (Fig. 20 (9))
- 14. If **[Progress]** indicates 100% (Fig. 20 ^(m)) and no error sign (in red) appears on the status bar at the bottom of the window (Fig. 20 ^(m)), the update is complete.
- 15. Turn the power of the FA-10DCCRU off, and disconnect the cable from CN1.
- 16. Close the top panel of the FA-10DCCRU.



Fig. 20 CPLD Update Screen (FA-10DCCRU)

7. FA-10AES-BL/UBL Update

7-1. FPGA(FPGA 2) Update (PM 9224)(Required Time: 2min.)

* The FPGA2 update procedure for FA-10AES-BL and FA-10AES-UBL is the same.

- 1. Connect the FA-1010 and PC using a LAN cable.
- 2. Start the FA1010 Updater.exe file.
- 3. Enter the IP address (default IP address: 192.168.0.10)(Fig. 21 ①).
- 4. Check [Option A] (if FA-10AES-BL/UBL is installed in Slot) (Fig. 21 2).
- 5. Select [FA-10AES-*] (Option) (Fig. 21 ③).
- 6. Select [FPGA] (Fig. 21 ④).
- 7. Select the latest FPGA data under [Update File] (Fig. 21 ⑤).
- 8. Click [Update] to start updating (Fig. 21 6).
- The selected file needs to be in **.pof** format with a file name that begins with "**FA10AES_**". If an error occurs, verify that the data is FA-10AES FPGA data.
- 9. A message appears when the update is complete.
- 10. Turn the power of the FA-1010 on, and verify that the latest FPGA2 version is displayed in the FA-1010GUI Status tab.

A FA-1010 Progra	am Upd 👝 🖻		
IP Address 19	92.168.0.	10 <	① Enter the IP address
<u>T</u> arget			
FA-1010 Soft	t		
💿 FA-1010 FPG	A 1/2/3/4		
C FA-10RU Sof	it		
C FA-10DCCRU	J Soft		·
Option A	🔘 Option B 🖂	\leq	② Select a Slot
Option C	🔘 Option D		
Option			
FA-10AES-*		•	= ③ Select FA-10AES-*
	🂿 FPGA 🛛 <		④ Select FPGA
Update <u>F</u> ile			5 Select a File
<u>U</u> pdate			6 Click Update
Version : 2.	2.1		
Ready Sent da	ata:		
Fig. 21 FA-101	0 Program Updater	dialog	

(for FA-10AES FPGA update settings)

Updating CPLD (FPGA 1) (PM 9225)

- * FPGA1 update for the FA-10AES-BL and FA-10AES-UBL is the same.
- 1. Remove the top panel of the FA-1010.
- 1. Connect the ByteBlaster II to the parallel port of a PC (or USB Blaster cable to a USB port).
- 2. Connect the **ByteBlaster II** plug to **CN4** on the FA-10AES-BL/UBL card (Card address: K.2, 5.0).
- 3. Start Quartus II Programmer.
- 4. Verify that **ByteBlasterII** (or **USB Blaster**) is selected (Fig. 22 ①).
 - If **ByteBlaster II** that is connected to PC is not selected, or "**No Hardware**" is displayed, click **[Hardware Setup]** (Fig. 22. ②) and select the connected **ByteBlasterII** (or **USB Blaster**).
 - * USB Blasters will not appear under the **[Hardware Setup]** list, unless they have been connected beforehand.
- 5. Select [JTAG] under [Mode] (Fig. 22 ③).
- 6. Turn the power of the FA-1010 on.
- 7. Click [Auto Detect] (Fig. 22 ④).
- 8. If connected devices are displayed on the screen, select "EPM2210F256" displayed under [Device] (Fig. 22⑤), then click [Change File] and select the latest pof file (Fig. 22⑥).
- 9. Check [Program/Configure] and [Verify] (Fig. 22 ⑦).
- 10. Click [Start] to start updating (Fig. 22®).
- 11. If **[Progress]** indicates 100% (Fig. 22 (9)) and no error sign (in red) appears on the status bar at the bottom of the window, the update is complete (Fig. 22 (9))
- 12. Turn the power of the FA-1010, and disconnect the cable from CN4.
- 13. Turn the power of the FA-1010 on, and verify that the latest FPGA1 version is displayed in the FA-1010GUI Status tab.
- 14. Close the top panel of the FA-1010.



Fig. 22 CPLD Update Screen (FA-10AES)

A-1. Utility

Click the **Utility** tab at the top of the page to open the Utility page.

A FA-1010GUI Remote Control Software	
Settings Help	
Main Unit Video Block Audio Block OPI Status Utility Network	
Event Control	ا ر Backup Parameter
Start-up Event Lood Last Settings	Save File Save
Loud Event Load	Restore Bastore
Event No. Default Settings 🔹	File
Mode Load All	Apply Settines Settines Parameter Event Name
Save Event Save	
Event No. No.801 EVENT 1	
Event Name Edit	
CEvent Data Backup	
Save File Save	
Restore	
File Browse	
Connected	E4-1010 100 100 100 100 100 100 100 100 10
SAME NO. SOL.	PA-1010 192.1080.11 30010

A-1-1. Event Control

FA-1010 can save setting data in 100 event memories. The desired settings can be immediately recalled by loading a saved setting data.

Item		Default	Setting range	Description	
Start-up Event Load		Last Setting	Last Setting Default Settings Event1-100	 Last Setting: Starts up with the last set settings. Default Settings: Starts up with default settings. Event1 to 100: Starts up with the settings saved as an event among events 1 to 100. 	
	Load	-	-	The Load button allows you to load an event.	
Load	Event No.	Default Settings	Default Settings Event1-100	Allows you to select an event number to be recalled.	
Event	Mode	Load All	Load All Load FS(1-10) Only	Allows you to select how to load event data. ^{*1} Load All: Loads all data in the event. Load FS1-10 Only: Loads only the selected FS event data.	
Save	Save	-	-	The Save button allows you to save an event to the FA-1010.	
Event	Event No.	Event 1	Event1-100	Allows you to select an event number to be saved	
Event Name		-	-	The Event button allows you to open the Event Name setting screen. *2 (See Sec. A-1-1-1. "Event Name Edit".)	

*1 See Sec. 9. "Menu List" of FA-1010 Operation Manual for details on the event loading in different modes.

*2 Event names will be displayed for Event Load/Event Save settings.

WARNING

Note that selected Default Settings reset settings, and that all data except Event data and network settings will be lost every time the FA-1010 is powered on.

A-1-1-1. Event Name Edit

Events 1 to 100 can be named in this page.

Event Nam	ve Edit						
Event No.	Name	Event No.	Name	Event No.	Name	Event No.	Name
Event 001	EVENT 1	Event 026	EVENT 26	Event 051	EVENT \$1	Event 076	EVENT 76
Event 002	EVENT 2	Event 027	EVENT 27	Event 052	EVENT 52	Event 077	EVENT 77
Event 003	EVENT 3	Event 028	EVENT 28	Event 053	EVENT 53	Event 078	EVENT 78
Event 004	EVENT 4	Event 029	EVENT 29	Event 054	EVENT 54	Event 079	EVENT 79
Event 005	EVENT 5	Event 030	EVENT 30	Event 055	EVENT \$5	Event 080	EVENT #0
Event 006	EVENT 6	Event 031	EVENT 31	Event 056	EVENT 56	Event 081	EVENT \$1
Event 007	EVENT 7	Event 032	EVENT 32	Event 057	EVENT 57	Event 082	EVENT 82
Event 008	EVENT 8	Event 033	EVENT 33	Event 058	EVENT 58	Event 083	EVENT #3
Event 009	EVENT 9	Event 034	EVENT 34	Event 059	EVENT 59	Event 084	EVENT #4
Event 010	EVENT 10	Event 035	EVENT 35	Event 060	EVENT 60	Event 085	EVENT 85
Event 011	EVENT 11	Event 036	EVENT 36	Event 061	EVENT 61	Event 086	EVENT #6
Event 012	EVENT 12	Event 037	EVENT 37	Event 062	EVENT 62	Event 087	EVENT #7
Event 013	EVENT 13	Event 038	EVENT 38	Event 063	EVENT 63	Event 088	EVENT #8
Event 014	EVENT 14	Event 039	EVENT 39	Event 064	EVENT 64	Event 089	EVENT 89
Event 015	EVENT 15	Event 040	EVENT 40	Event 065	EVENT 65	Event 090	EVENT \$0
Event 016	EVENT 16	Event 041	EVENT 41	Event 066	EVENT 66	Event 091	EVENT \$1
Event 017	EVENT 17	Event 042	EVENT 42	Event 067	EVENT 67	Event 092	EVENT 92
Event 018	EVENT 18	Event 043	EVENT 43	Event 058	EVENT 68	Event 093	EVENT 93
Event 019	EVENT 19	Event 044	EVENT 44	Event 069	EVENT 69	Event 094	EVENT \$4
Event 020	EVENT 20	Event 845	EVENT 45	Event 070	EVENT 70	Event 095	EVENT 95
Event 021	EVENT 21	Event 046	EVENT 46	Event 071	EVENT 71	Event 096	EVENT 96
Event 022	EVENT 22	Event 047	EVENT 47	Event 072	EVENT 72	Event 097	EVENT \$7
Event 023	EVENT 23	Event 048	EVENT 48	Event 073	EVENT 73	Event 098	EVENT 98
Event 024	EVENT 24	Event 049	EVENT 49	Event 074	EVENT 74	Event 099	EVENT \$9
Event 025	EVENT 25	Event 050	EVENT 50	Event 075	EVENT 75	Event 100	EVENT 100
			ОК	Cancel			

A-1-2. Backup Parameter

The FA-1010 settings can be saved to a file, and the saved settings in a file can be loaded.



Saving the FA-1010 Settings to a File

Click Save. A window to save a file to as shown below opens.



Specify the destination directory and file name, then click **Open**. A "Saving in progress" message box appears.

A "Saving complete" message box appears after the file is saved.

• Loading the data saved in a file

Press a button to select settings to load under Apply Setting. The button will light blue. If no button is selected, no data will load.

Click Browse. A "Select the Parameter Backup File you want to restore" window opens.



Specify a destination directory, and click **Open**. Click **Restore**. A confirmation message as shown below opens.

Confirmation 💽
Are you sure you want to restore from file ?
OK Cancel

Click **OK** to start transferring file material to the FA-1010. To stop the file transfer, click **Cancel**.

* Some parameters such as By-pass and Freeze settings are not stored in any Backup Parameter.

IMPORTANT

The FA-1010 uses the CSV file format to backup the configuration data which enables commercially available spreadsheet software to edit the data. However, Unit ID or event names that consist only of numbers may be recognized as numeric values by such software and appear differently after being recalled to the FA-1010. It is recommended that alphabetical values be included in names to enable editing using such software.

A-1-3. Event Data Backup

Event Memory data (Events 1 through 100) can be saved in a file on the computer as a backup. The backup data can be moved to another FA-1010.

Save File Save
Restore
File C:¥Users¥fora¥Desktop¥FA-1010_EventData_20130 Browse

• Save File

Click Save. A window as shown below opens.

Select the Event Data Backup File you want to :	ave 💌
🚱 🗢 💻 Desktop →	 ✓ ✓ Search Desktop
Organize 🔻 New folder	⊾= ⊌≓ ▼ (0)
▲★ Favorites Librarie Desktop Downloads Downloads	s Folder
Recent Places	Folder
 ▲ Compare Compar	ter Folder
Pictures Videos Videos	k Folder
▲ 📜 Computer	
File name: FA-1010_EventData_20130	514_145215 🗸
Save as type: Event Data Backup File (*.1	01e) 🗸
Hide Folders	Save Cancel

Specify a destination directory and file name, then click **Save**. A "Saving in progress" message box appears.

Once the file has been saved, a "Saving complete" message box appears.

Restore File

To load a backup file on the computer, click **Browse**. The "Select the Event Data Backup File you want to restore" window appears.



Specify the directory and the file name and click **Open**. The destination path will be displayed on screen.

Click Restore. A confirmation dialog box as shown below appears.

Confirmation	×
Are you sure you want to restor	e from file ?
ОК	Cancel

Click OK to start loading. To stop the data upload, click Cancel.

B-1. Backup & Restore

Clicking **Backup & Restore** opens the dialog box as shown below.

EA-10RU	Backup Config Data
Information Network Settings User Account Settings Unit ID Assignment Event Naming Salvo Naming Backup & Restore	Save File: Save Restore: Load 参照 ○ Network Settings ○ Unit ID Assignment ○ Event Name ○ Salvo ○ GPI Settings ○ Front Panel Settings
Restart	Backup Event Data

This dialog box allows you to save the FA-10RU settings and event data to a PC. The saved data can be recalled.

The FA-10RU configuration data can be saved/recalled to/from a PC as a CSV file.

Saving Configuration Data to a PC

Click Save File: Save under "Backup Config Data".

ファイルのダウンロード	
このファイルを聞くか、または保存しますか?	
名前: fal0rucsv 種類: Microsoft Office Excel CSV ファイル 発信元: 192.168.0.100	
開((<u>(</u>) 保存(<u>(</u>) キャンセル	
インターネットのファイルは役に立ちますが、ファイルによってはコンピューターに問題 を起こすものもあります。発行下が信頼できない場合は、このファイルを開いたり保 存したりしないでください。 <u>危険性の原則</u>	

Click **Save** to save the data to a desired folder.

Recalling the Saved Configuration Data from a PC

(1) Select items in the configuration data to be recalled.

Item	Description	
Network Settings	Recalls settings that are set in the Network Settings menu. See Sec. 10-2. "Network Settings" of FA-10RU Operation Manual for details	
Unit ID Assignment Recalls settings that are set in the Unit ID Assignment me Sec. 10-4. "Unit ID Assignment" of FA-10RU Operation Ma details.		
Event Name	Recalls settings that are set in the Event Naming menu. SeeSec. 10-5. "Event Naming" of FA-10RU Operation Manual for details.	
Salvo	Recalls settings that are set in the Salvo Naming menu. See Sec. 10-6. "Salvo Naming" of FA-10RU Operation Manual for details.	
GPI Settings	Recalls GPI settings. See sections 9-1-2 to 9-1-4 of FA-10RU Operation Manual for details on GPI settings.	
Front Panel Settings	Recalls front panel operational settings. See sections 9-1-5 and 9-1-6 of FA-10RU Operation Manual for details.	

(2) Click **Browse** under Backup Config Data to select a file in which the configuration data is saved.

* The control from the FA-10RU is disabled while saving or recalling configuration data.

IMPORTANT

Network settings will be applied after restart.

Be sure to perform restart as described in Sec. 10-8. "Restart" of FA-10RU Operation Manual.

B-1-2. Event Data Backup

The event data saved in the FA-10RU can be saved/recalled to/from a PC.

• Saving Configuration Data to a file Click Save File: Save under "Backup Event Data".

ファイルの	ジンロード 🔀
20771	(ルを聞くか、または保存しますか?
•••	名前: fa10ru_evtrue 種類: HTMLドキュメント 発信元: 192.168.0.100
	開((<u>(</u>)) 保存(<u>(</u>)) キャンセル
2	インターネットのファイルは役に立ちますが、ファイルによってはコンピューターに問題 を起こすものもあります。発信元が信頼できない場合は、このファイルを聞いたり保 存したりしないでください。 <u>危険性の説明</u>

Click Save to save the data to the desired folder.

• Recalling the Saved Event Data from a PC Click Browse under Backup Event Data and select a file in which event data has been saved.

* The control from the FA-10RU is disabled while saving or recalling the configuration data.

C-1. Backup & Restore

Click **Backup & Restore** in the left pane to display the Backup & Restore page. This page allows you to perform the following backup and restoration tasks.

- Backup and restore Network Settings, Unit ID Assignment, Direct Mode Settings, and Event Name pages, and GPI and System settings.
- Backup and restore Event data
- Copy settings to another FA-10DCCRU unit.

Backing Up All FA-10DCCRU Settings (excluding Event Data)

Clicking Save in the Config Data area allows you to save all settings as shown below.



- (1) Click Save in the Config Data area to display the Download dialog.
- (2) Click Save in the dialog.
- (3) A Select Destination dialog will appear. Specify the destination folder and click **Save**. The FA-10DCCRU settings are automatically stored in the backup file named "**fa10dccru.csv**." Change the file name as necessary.

Restoring Settings

To restore the stored settings, proceed as follows.



- (1) Check on the checkboxes in the Config Data area to select data.
- (2) Click **Browse** to select the backup file.
- (3) Click **Load**. A confirmation dialog will appear. Click **OK** to load the settings. To cancel the process, click **Cancel**.

IMPORTANT After loading network settings, restart the FA-10DCCRU.

Saving Event Data

This procedure allows you to save all event data (1 - 100) in a file.

	_	_	Backup & Restore	
FA-10DCCRU			Config Data	
Information	Save File:	Save		
Network Settings	Restore:	Load		参照
User Account Settings			Settings	
Direct Mode Settings			Network Settings	
Event Naming			Unit ID Assignment	
Restart			Direct Mode Settings	
			Event Name	
			GPI Settings	
INNOVATIONS IN VIDEO and AUDIO TECHNOLOGY			System Settings	
		_	Event Data	
	Save File:	Save		
	Restore:	Load		参照

- (1) Click **Save** in the Config Data area to display the Download dialog.
- (2) Click Save in the dialog.
- (3) Specify the destination folder and click **Save**. All event data are automatically stored in the file named **fa10dccru_evt.1re**. Change the file name as necessary.

Restoring Event Data

- (1) Click the browse button in the Event Data area and select the event backup file.
- (2) Click **Load**. All event data stored in the file are loaded.

IMPORTANT

Note that once event data are loaded, all settings in the FA-10DCCRU are replaced.

D-1. Status (GUI)

Click the **Status** tab at the top of the page to open the status page.

FA-1010GUI Remote Settings Help Main Unit Video Block	Control Software Audio Block GPI Status Utility Network	F	-	FOR.4
FA-1010 Serial Number 151 Saftware 2.2 FPGA 1 2.1 FPGA 2 2.1 FPGA 3 2.1	FAN Status FAN I Normal FAN I Normal FAN I Normal FAN Normal FAN Normal	-Slot A	FA-19GPI	
FPGA 1 2.1	Power Supply Status DC Forer1 Normal DC Power2 Not Installed	Stot C FA-18AES-8L FPGA1 2.00 FPGA2 2.00	Stot D	
Connected.				FA-1010 192.198.0.10.50010

* An exclamation mark (!) is displayed on the Status tab, if an error occurs in a FAN or power supply unit.

A FA-1010GUI Rem	ote Control Software	The state of the s	-	and the owner of the owner.	
Settings Help					608 6
Main Unit Video Bloc	k Audio Block GPI	Status Utility Network			
CFA-1010		rFAN Status	ſ ^{Slot} A	CSlot B	
Serial Number	15120000	FAN1 Normal	FA-10GPI	FA-10GPI	
Soft w are	2.20	FAN2 Normal			
FPGA 1	2.10	FAN3 Normal			
FPGA 2	2.10	FAN4 Normal			
FPGA 3	2.10				
FPGA 4	2.10		L		
FPGA 5	2.10	Power Supply Status	[^{Slot C}	[Slot D]	
		DC Power1 (Manadad	FA-10AES-BL	FA-10ANA-AUD	
		DC Power2 Normal	FPGA1 2.00		
		8 8	FPGA2 2.00		
			L]		
Connected.					FA-1010 192.168.0.10 : 50010

♦ FA-1010

Item	Indication	
Serial Number	Displays the serial number of the unit.	
FPGA 1- 5	Displays the version of each FPGA.	
Software	Displays the software version.	

♦ Fan Status

Item	Indication	Description
FAN 1-4	Normal Stopped	Displays the status of FAN 1-4 respectively. Normal : Operating normally. Stopped : The FAN has stopped. Turn the unit power off, and contact your dealer for assistance.

• Power Supply Status

Item	Indication	Description
DC Power1 DC Power2	Normal Abnormal Not Installed	Displays the status of power supply units respectively. Normal : Normal Abnormal : Error state An error has occurred in the power supply unit. Although operation can be continued, replacement of the power supply unit is recommended. To do so, contact your dealer. Not Installed : The power supply unit is not installed.

Slot A-D

Item	Indication	Description
Slot A-D	FA-10AES-BL FA-10AES-UBL FA-10AES-UBL/UBLC FA-10ANA-AUD FA-10GPI	Displays the installation state and versions of installed option cards.

* The installed FA-10AES-UBLC is displayed with the FA-10AES-UBLC to which it is connected as "FA-10AES-UBL/UBLC". The status display of the slot where the FA-10AES-UBLC occupies does not change.

D-2. Status (Web)

Clicking the Status tab on the menu bar opens the dropdown menu as shown below.



D-2-1. Unit Status

FA-1010	Serial Number	: 15120000
	Software:	2.20
	FPGA 1:	2.10
	FPGA 2:	2.10
	FPGA 3:	2.10
	FPGA 4:	2.10
	FPGA 5:	2.10
FAN Status		Power Supply Status
FAN 1: Normal		DC Power 1: Normal
FAN 2: Normal		DC Power 2: Normal
FAN 3: Normal		
FAN 4: Normal		
Slot A		Slot B
Name: FA-10GPI		Name: FA-10GPI
Software:		Software:
FPGA 1:		FPGA 1:
FPGA 2:		FPGA 2:
Slot C		Slot D
Name: FA-10AES-	BI	Name: FA-10ANA-AUD
Software:		Software:
EPGA 1: 2.00		EPGA 1:
FPGA 2: 2.00		FPGA 2:
0		Refresh

♦ FA-1010

Item	Description		
Serial Number	Displays the serial number of the unit.		
Software	Displays the software version.		
FPGA 1- 5	Displays the version of each FPGA.		

FAN Status

Item	Indication	Description		
FAN 1-4	Normal Stopped	Displays the status of FAN 1-4 respectively. Normal : Operating normally. Stopped : The FAN has stopped. Turn the unit power off, and contact your dealer if a replacement is needed.		

• Power Supply Status

Item	Indication	Description	
DC Power1 DC Power2	Normal Abnormal Not Installed	Displays the status of power supply units respectively. Normal : Normal Abnormal : Error state Turn the unit power off, and contact your dealer if a replacement is needed. Not Installed : The power supply unit is not installed.	

• Option Slot Status

Item	Indication	Description		
	Name	Displays the type of installed option card.		
Slot A-D	Software	Displays the software version.		
	FPGA 1, 2	Displays the version of each FPGA.		

E-1. FA-10RU INFORMATION (Front Panel)

Displays the FA-10RU version information and FA-10RU FAN unit status.

--- FA-10RU INFORMATIO FPGA1 Version: 1.00 FPGA2 Version: 1.00 SOFT Version : 1.00 FAN Status :Normal





E-2. Information (Web)

Click Information. The information page as shown below appears.

FA-10RU

Information Network Settings User Account Settings Unit ID Assignment Event Naming Salvo Naming Backup & Restore Restart Unit Information Serial Number : 15440001 FPGA1 Version : 1.00 FPGA2 Version : 1.00 Soft Version : 1.00 Network Information

IP Address : 192.168.0.100 Subnet Mask : 255.255.00 Default Gateway : Unused MAC Address : 00-10-B1-09-40-01 TCP Port Number : 50010

Connection Status Status : Connect Unit ID : 1 Host Address : 192.168.0.10

Unit Name : FA-1010

Unit Information

Item	Description
Serial Number	Displays the serial number of the FA-10RU.
FPGA1 Version	Displays the version of the FA-10RU FPGA1.
FPGA2 Version	Displays the version of the FA-10RU FPGA2.
Soft Version	Displays the version of the FA-10RU Software.

Network Information

Item	Description		
IP Address	Displays the IP address of the FA-10RU.		
Subnet Mask	Displays the subnet mask of the FA-10RU.		
Default Gateway	Displays the gateway of the FA-10RU.		
MAC Address	Displays the MAC address of the FA-10RU.		
TCP Port Number	Displays the TCP port number of the FA-10RU.		

Connection Status

Item	Description		
Status	Displays the status of connection with FA-1010.		
Unit ID Unit I			
Host Address	Displays the IP address of the connected FA-1010.		
Unit Name	Displays the unit name of the connected FA-1010.		

*1 See Sec. 10-4. "Unit ID Assignment" of FA-10RU Operation Manual for details.

*2 See Sec.5-2-2. "Connecting in IP Address Selection Mode" of FA-10RU Operation Manual for details.

F-1. SYSTEM Setting (Front Panel)

Press and hold the GRP ADJ/SYSTEM button to enter System Setting mode.

The GRP ADJ/SYSTEM button flashes in this mode.

Pressing the flashing <u>GRP ADJ/SYSTEM</u> button exits System Setting mode and the button functions as a Group ADJ On/Off.

The <u>SELECT</u> button allows you to select a setting. Successively pressing the button scrolls setting items in the following order. When the end setting is reached, the display returns to the top item.

- ① Unity Mode: Unlinked
- 2 Front Buzzer: Enable
- ③ GPI Buzzer: Enable
- ④ Display Mode: Full
- 5 Display BRIGHT: 30%
- 6 GPI 1 No.1-10
- ⑦ GPI 2 No.11-20
- ⑧ GPI 3 No.21-30
- 9IP: 192.168.0.100
- 10 Subnet 255.255.255.0
- ① Gateway 0.0.0.0
- 12 FAN: Normal
- 13 Soft Ver: 1.00
- (4) FPGA1 Ver: 1.00
- 15 FPGA2 Ver: 1.00

Unity Mode: Unlinked (Back to the top)

IMPORTANT

Note that in System Setting mode system settings can be checked and changed without a main unit connection. Other settings cannot be performed in this mode.

F-1-1. System Settings

No.	Menu item	Setting buttons	Description	
1	Unity Mode	─, + buttons	 ☐ Unlinked: UNITY is applied only to the relevant FS channel. ☐ Linked: UNITY is applied to all linked FS channels. 	
2	Front Buzzer	─, + buttons	 Disable: Disables the front buzzer. 	
3	GPI Buzzer	─, + buttons	 Disable: Disables the buzzer for GPI settings. Enable: Disables the buzzer for GPI settings. 	
4	Display Mode	─, + buttons	 Full: Displays settings in detailed format. Simple: Displays settings in short format. 	
5	Display BRIGHT	─, + buttons	Sets front panel brightness. Options are 1.7%, 3.3%, 5%, 6.7%, 8.3%, 11.7%, 15%, 18%, 23%, 30%(default), 37%, 47%, 60%, 80% and100%	
6	GPI1 No.1-10	Rotary encoder (*1)	Sets brightness for GPI OUT LED indicators (No1 – 10) from 0 to 255. (Default: 50)	
7	GPI2 No.11-20	Rotary encoder (*1)	Sets brightness for GPI OUT LED indicators (No11 – 20) from 0 to 255. (Default: 50)	
8	GPI3 No.21-30	Rotary encoder (*1)	Sets brightness for GPI OUT LED indicators (No21 – 30) from 0 to 255. (Default: 50)	
9	IP:192.168.0.100	(Display only)	Displays the FA-10DCCRU IP address.	
10	Subnet 255.255.255.0	(Display only)	Displays the FA-10DCCRU subnet mask.	
11)	Gateway 0.0.0.0	(Display only)	Displays the FA-10DCCRU default gateway.	
12	FAN ^(*2)	(Display only)	Displays the FA-10DCCRU fan status. Normal: The fan is functioning normally. Stopped: The fan has stopped.	
13	Soft Ver:1.00	(Display only)	Displays the software version.	
14	FPGA1 Ver:1.00	(Display only)	Displays the FPGA1 version.	
15	FPGA2 Ver:1.00	(Display only)	Displays the FPGA2 version.	

(*1) See section 8-2. "GPI OUT LED Indicator Brightness Settings." in the FA-10DCCRU Operation Manual.(*2) When the fan has stopped, turn off the unit power, notify your FOR-A reseller or supplier and change the fan.

F-2. Information (Web)

Click **Information** in the left pane to display the Information page, in which Unit Information and Connection Status details of the FA-10DCCRU are displayed.

- FA-10DCCRU version, serial number and network setting details
- Main Unit information

	Information		
FA-10DCCRU Information Network Settings User Account Settings Unit ID Assignment Direct Mode Settings Event Naming	Unit Information Soft Version : 1.00 FPGA1 Version : 1.00 FPGA2 Version : 1.00 Serial Number : 15620001 MAC Address : 00-10-B1-09-90-01	Connection Status Status : Disconnect Unit ID : 1 Host Address : 0.0.0 Unit Name :	
Backup & Restore Restart	IP Address : 192.168.0.100 Subnet Mask : 255.255.255.0 Default Gateway : Unused TCP Port Number : 50010	Refresh	

Click **Refresh** to refresh the page.



FOR-A COMPANY LIMITED

Head Office Overseas Division Japan Branch Offices R&D/Production 3-8-1 Ebisu, Shibuya-ku, Tokyo 150-0013, Japan Phone: +81(0)3-3446-3936, Fax: +81(0)3-3446-1470 Osaka/Okinawa/Fukuoka/Hiroshima/Nagoya/Sendai/Sapporo Sakura Center/Sapporo Center

FOR-A America Corporate Office

11155 Knott Ave., Suite G&H, Cypress, CA 90630, USA Phone: +1-714-894-3311 Fax: +1-714-894-5399

FOR-A America East Coast Office

2 Executive Drive, Suite 670, Fort Lee Executive Park, Fort Lee, NJ 07024, USA Phone: +1-201-944-1120 Fax: +1-201-944-1132

FOR-A America Distribution & Service Center

2400 N.E. Waldo Road, Gainesville, FL 32609, USA Phone: +1-352-371-1505 Fax: +1-352-378-5320

FOR-A Corporation of Canada

346A Queen Street West, Toronto, Ontario M5V 2A2, Canada Phone: +1-416-977-0343 Fax: +1-416-977-0657

FOR-A Latin America & the Caribbean

5200 Blue Lagoon Drive, Suite 760, Miami, FL 33126, USA Phone: +1-305-931-1700 Fax: +1-305-264-7890

FOR-A Europe S.r.l.

Via Volturno 37, 20861 Brugherio MB, Italy Phone: +39-039-879-778 Fax:+39-039-878-140

FOR A UK Limited

Trident Court, 1 Oakcroft Road, Chessington, KT9 1BD, United Kingdom Phone: +44 (0)20-3044-2935 Fax: +44(0)20-3044-2936

FOR-A Italia S.r.I.

Via Volturno 37, 20861 Brugherio MB, Italy Phone: +39-039-881-086/103 Fax: +39-039-878-140

FOR-A Corporation of Korea

1007, 57-5, Yangsan-ro, Yeongdeungpo-gu, Seoul 150-103, Korea Phone: +82(0)2-2637-0761 Fax: +82(0)2-2637-0760

FOR-A China Limited

708B Huateng Bldg., No. 302, 3 District, Jinsong, Chaoyang, Beijing 100021, China Phone: +86(0)10-8721-6023 Fax: +86(0)10-8721-6033

FOR-A Middle East-Africa Office

Jebel Ali Free Zone, LOB-16, Office 619, P. O. Box: 261914 Dubai, UAE Phone: +971 4 887 6712 Fax: +971 4 887 6713

http://www.for-a.com/