

MT Series Firmware Installation

Bulletin AE01B-A0559-001 Rev. F

This document provides instructions for updating firmware on the MT series dehydrator products.

Notice:

The installation, maintenance or removal of dehydrator systems requires qualified, experienced personnel. Commscope installation instructions have been written for such personnel. Dehydrator systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment.

Commscope disclaims any liability or responsibility for the results of improper or unsafe installation practices.

Tools required:

Phillips Head Screw Driver #1 Laptop/PC 9/16" Open End Wrench Connection Cable - USB2.0-USBMini



.100" spacing Jumper (eg. Digi-Key part number 530153-2-ND or similar)



Download and install Putty from http://www.putty.org/

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Installation steps:

- 1. Go to <u>https://www.renesas.com/us/en/software/D3017334.html</u> and download the latest flash development toolkit. V4.09 upgrade 3.
- 2. Install the program following the directions from the developer.



For supported MCUs, refer to Available MCUs for Flash Development Toolkit V4.xx Re

- 3. Create a folder on the laptop and download the files from the Commscope website.
 - a. Ensure both files are downloaded in the same folder.

100	firmware_3_0.mot	
	firmware_3_0_ID_README.txt	

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- 4. Remove dehydrator from service
 - a. Turn power off (switch is located on rear or top of chassis).



b. Disconnect power cord.



- c. Close shut-off valve(s) in output tubing if installed.
- d. Disconnect tubing from output port(s).



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- 5. Locate dehydrator in an area that allows free and safe access around the dehydrator to remove the main cover.
- 6. Using a Phillips Head screw driver, remove the screw securing the main cover.



- a. Retain the screws for reattaching the cover
- b. Set the cover to the side

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7. Locate the USBMini port and the Jumper port (P13).

USBMini



P13

8. Install the .100" jumper to P13.



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9. Connect the PC to the control board using the USBMini cable.



10. Reconnect the power and turn the unit on.



11. When you power up the unit the PC will automatically recognize the control board.



12. Once the unit is fully recognized open the Flash Development Toolkit V4.09 Basic through the start menu.



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- FDT Simple Interface (Unsupported Freeware Version) Options Exit Login. PROGRAMMING Batch Erase Mode COM11 Compare Mode AutoDisconnect Readback Verify Request Checksum Erase Device Before Program File Over Warning Desktop\fw_dryctl\firmware\release\firmware_3_0.mot . Erasure of User Boot Area + Security Protection Set ID Code... Block Locking... ogram Flash Other Properties Settings New Settings... Elash progr ming About... OS: Windows 7 [Admin] FCF Settings Applied: R5F21248, (C:\Program Files (x86)\Renesas\FDT4.09\k
- 13. After the program starts click on "Options" then "New Settings"

14. From the list, choose file name "R5F21248" about 80% down the list. Click "Next".

erenter.					
	BAS	IC FILE PROGRAMMI	NG		Exit
ose Device A	nd Kernel		_		
The FLASH D Select the dev	evelopment Toolkit sup vice you wish to use with	ports a number of Rei this project from the li	nesas FLASH st below.	devices.	
Filter: R5F2	21248				Other
Туре	Full Name	Kernel Version	Info		
Generic BOC	OT D Generic BOOT	N/A			
Generic BOC	DT D Generic BOOT	N/A			
Generic BOC	DT D Generic BOOT	N/A 111			
Generic BOC	DTD Generic BOOT	N/A 	<back< td=""><td>Next></td><td>Cancel</td></back<>	Next>	Cancel

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15. Choose the virtual comport from the drop-down list. It should be Com3 or Com4 for the first time you load firmware, click "Next". The Com Port will increase with the number of boards that are flashed.



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16. Uncheck the "Use Default" box; select 115200 from the drop-down list for the Recommended Speed; click "Next".

puons		
	BASIC FILE PROGRAMMING	Exit
nnection Type		
Commentative Comme	The FLASH Development Toolkit can connec number of different ways. All the options on this after the Project has been created. Select Connection: © BOOT Mode © USER © In BOOT Program mode the device areas connection. The Toolkit downloads progra device as required. The Recommended Speed setting is based of clock. The user may also input their own, if this kernel (and the interface board). © User Specified	to your device in a page may be changed page may be changed program Mode mel skeedy running as its FLASH prior to mmming kernels to the in the current device anni is supported by the Use Default
	< Back Nex	t> Cancel

17. Click "Finish". There are no changes to this screen.

nons		
	BASIC FILE PROGRAMMING	Exit
ramming Options	and the second second second	
With Encoder With Contactor Profile Subary Profile Subary	What level of device protection would y Protection Automatic C Interactive When programming the device, any blo- previously will automatic What level of messaging would you like Messaging C Standard A Advanced The Toolket will display verboaren communicating with the Target devi Interface hardware development, a Would you like to perform readback ver-	ou like? C None cks found to have been writte ally be areaed. P P P P P P P P P P P P P
	< Back	Finish Cancel

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 Check the box that says User/Data Area; click the arrow button to the right of the empty box and select "Browse". Select file "firmware 3.0.mot" that is in the folder that was downloaded from the Commscope website.

ptions				
F	BASIC	FILE PROGRAMMING		Exit
Device :	R5F21248	Port: CC	DM12	
File Selecti	on			
C Downli	ad File			
🔽 User	/Deta Area C:\Users\cste	wart\Desktop\fw_dryctNim	nware\release\firmware_	3_0.mot
Use Use	B P Open			23
	Look in: 📜 New E	Board Files		
	Name	~		Date modified
Flash Dev are provi	<pre>// firmware_3_0.m // firm</pre>	not		9/28/2018 11:36
FCF Setti FDT API i	n (III.		
FCF Setti	.ng File name:			Open

19. Click the "Program Flash" button. This could take a few minutes to load completely. There will be a message stating "Image Written to Device" after it is done.

Program Flash Discon	nect
Erased block EB0. (0x0000c000 - 0x00013FFF) Stase complete	^
Processing file :"C:\Users\cstewart\Desktop\New Board Files\firmware	s_3_
Speration on User Flash	
Writing image to device [0x0000FE00 - 0x0000FFFF]	
Data programmed at the following positions:	
0x00004000 - 0x0000D8FF Length : 0x00009900	
0x0000FE00 - 0x0000FFFF Length : 0x00000200	11
38.75 K programmed in 7 seconds	=
Image written to device	-

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20. Click the "Disconnect" button after it has written to the board.

peration on Use:	r Flash			
Iriting image to	device	[0x00004000	- 0x0000D8FF]	
friting image to	device	[0x0000FE00	- 0x0000FFFF]	
ata programmed a	at the foll	owing posit	ions:	
0x00004000 - 0x	0000D8FF	Length :	0x00009900	
0x0000FE00 - 0x	DOOOFFFF	Length :	0x00000200	
8.75 K programm	ed in 7 sec	onds		
mage written to	device			
isconnecting				100
isconnected				=
				v
2				

21. Power the unit off.



22. Remove the "Jumper" from the dehydrator that was installed in step 8. **The MT050C requires the tank to be completely drained before the initial power up**. Turn the power back on paying attention to the initial screen to verify that the firmware has changed to v3.0.



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23. Leave the USBmini cable plugged in.



- 24. Click on the Putty icon.
- 25. Click on Session then Serial.

PuTTY Configuration		? 3
ategory:		
E Session	Basic options for your PuT	TY session
Logging Terminal Keyboard Bell	Specify the destination you want to c Host Name (or IP address)	Port 22
Features Window Appearance Behaviour Translation Selection Colours Connection Data Proxy Telnet Rlogin	Connection type: Raw Telnet Rogin Load, save or delete a stored session Saved Sessions) SSH 🚫 Senal
	Default Settings	Load Save Delete
⊞- SSH Serial	Close window on exit: Always Never Only	on clean exit
About	elp Open	Cancel

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26. Using the same COMPort from step 15, log it in the Serial line in Putty and change the Speed to 19200.

ategory:		
E Session	Basic options for your	PuTTY session
Logging Terminal Keyboard Bell Features Window Appearance Behaviour Translation Selection Colours Connection Data Proxy Telnet Rlogin E-SSH Serial	Specify the destination you war	nt to connect to
	Serial line	Speed
	COM4	19200
	Connection type:	ijn 🔘 <u>S</u> SH 🛛 i i i i i i i i i i i i i i i i i i
	Load, save or delete a stored s Sav <u>e</u> d Sessions	ession
	Default Settings	Load Sa <u>v</u> e Delete
	Close window on e <u>x</u> it:	Only on clean exit

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- 27. Next click on the "OPEN" button. A blank screen will pop up.
 - a. Type in "ID". This will display the basic info of the unit. This will also verify that the dehydrator is correctly connected the PC.
 - b. Any information typed in PUTTY must be in CAPITAL LETTERS.





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28. To reset the LOG type "CLRLOG".



29. To clear the compressor LIFETIME type "CLR_LIFE".



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- 30. Cycle the power using the power switch located on the back of the unit for the EV-8 to be cleared off.
- 31. Scroll through the log using the VIEW LOG and the ARROW KEYS on the Dehydrator.
- 32. Please note that it is common to see EV-6 in the log. This is notification that the log has been cleared.
- 33. Turn the unit off.
- 34. Remove the USBMini cable from the dehydrator.
- 35. Reattach the cover. Using the screws removed in step 6.
- 36. Reinstall dehydrator in original location:
 - a. Reconnect tubing to output port(s)



b. Reconnect power cord.



- c. Open shut off valve(s) if installed
- 37. Power the dehydrator back on.

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