

DEC4 Firmware Upgrade Instructions

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From time to time Tempest may introduce new DEC4 firmware for feature enhancements and bug fixes. Please note that the main System Control Board (SCB) and the various optional daughter boards each have their own firmware, and it will be good practice to update all firmware in an enclosure for optimal performance and interoperability.

- System Control Board firmware may be updated DIRECTLY using JESE JUST software and a USB cable, or INDIRECTLY, over an RDM network, using JESE GetSet software and a JESE RDM-TXI interface.
- Fan board firmware is extremely simple and is unlikely to require updating.
- RS485 Board (51.485) firmware may be updated over an RDM network, using JESE GetSet software and a JESE RDM-TXI interface.

All required files are available for download at http://www.tempest.biz/tech-support.php?lang=en

Indirect Firmware Updates

Requirements

Windows Laptop / PC, Windows XP through Windows 10

A JESE RDM-TXI or RDM-TXI interface and USB connection (available from Tempest).

An installed version of the JESE GetSet RDM configuration utility.

A copy of the firmware file(s) to upload, available for download from <u>www.tempest.biz/tech_support</u>.

EDEC4 F-W.zip - WinRAR	(evaluation copy)						
File Commands Tools	Favorites Options He	lp					
Add Extract To T	Test View Delete	Find	Wizard Info Vi	irusScan Comment SF	K.		
🚹 🗎 DEC4 F-W.zip	💽 🛿 🗎 DEC4 F-W.zip\DEC4 F-W - ZIP archive, unpacked size 10,465,723 bytes 🔹 👻						
Name	Size	Packed	Туре	Modified	CRC32		
Jan 1997 - 1997			Local Disk				
🛯 퉬 DEC4_ver.2.02.001			File folder	5/23/2017 11:07 AM			
🔒 RS485_0.01.012			File folder	5/23/2017 11:08 AM			
GetSet Setup 0.05.036	5,102,308	4,969,562	Application	5/23/2017 10:58 AM	93057C6D		
Just Setup.exe	5,134,055	5,001,520	Application	5/23/2017 10:59 AM	8CE2763E		
🖅 m 🖸			Total 2 folder	rs and 10,236,363 bytes in 2 f	iles		

Powered Target DEC4 with 51.485 RS485 communication interface card.

Installation Procedure

1. If not already installed, install a copy of GetSet. *To ensure that the correct USB drivers are loaded, the software should be installed and the PC/Laptop re-started before connection to an RDM-TXI.*



 If using an Asian character set, go to control panel and select Region and Language. Ensure input locale for non Unicode programs is set to a non Asian language

🔗 Region and Language						
Formats Location Keyboards and Languages Administrative						
Welcome screen and new user accounts						
View and copy your international settings to the welcome screen, system accounts and new user accounts.						
Convertinger						
Tell me more about these accounts						
Language for non-Unicode programs						
This setting (system locale) controls the language used when displaying text in programs that do not support Unicode.						
Current language for non-Unicode programs:						
Japanese (Japan)						
😯 Change system locale						
What is system locale?						
OK Cancel Apply						

3. Plug you RDM-TXI in to your PC and connect to the RS485 connection on the DEC4 communications board with the fly lead, as shown below.



4. Power up the target SCB, ideally with mains power, or alternatively, with a USB power adaptor connected to the USB Port on the SCB.





- On older revisions of DEC Firmware, if the elected DEC 'DATA MODE' is set to 'RS485 TEMP', select 'RDM MONITOR' mode using the DEC user display. On more recent revisions of Firmware, the appropriate mode will be automatically selected.
- 6. Open the GetSet application, connect to the RDM-TXI and discover the DEC. To run discovery, click the Icon indicated below
- 7. Right click on the highlighted item in the list view and select 'Reprogram' from the popup menu. This will open the firmware upload tool.

8)	JESE Ge	tSet								<		
File	Connect	ion Opt	ions Tools H	elp								
		Index 1	Unique ID 54 4C : 00 00 0	Descriptic 3 44 DEC4 Inte	n L rface	abel	DMX	Personality 1 of 3				
	DMX			File Connec	etSet tion Opt	tions	Tools H	łelp				
					Index	Unic	jue ID	Description	Label	DMX	Personality	
				- Tools - - 		54 4	C : 00 00 0	8 Identify All Settings Edit Label Sensors Clock Reprogram	3		1 of 3	
1 D	evice disco	overed in ().3 seconds.									
				©								
				1 Device disc	overed in I	0.3 sec	onds.			23/05/20	17 15:58	



8. In the Firmware upload handler, search for a file to upload by clicking the file icon. Find and select the file to load and click the Open button.

Device: 54 4C : 00 00 08	44		
Tools Tools October Color Color	mware Upload - Select- Firmware Program File Look in:		? ≥
	File name: 544C0005-0464.FUD Files of type: Field Updates	• •	Oper Cancel

9. On returning to the File upload tool window, select the green upload arrow to initiate the upload process. The upload will the start.

Device: 5	54 4C : 00 00 08 44	
b :-	Firmv	vare Upload
	Remote Device Manufacturer DEC4 Interface	Device: 54 4C : 00 00 08 44
	Software Version: 0.01.012	Firmware Upload
	File: C:\DEC Firmwi	Tools Manufacturer
	Select a file to	Software Version: 0.01.012
-A	ſ	File: C:\DEC Firmware\544C0006-0193.FUD
		Please Wait Uploading Image
		51 %



10. On successful completion of upload and restart, the firmware upload is complete.

Device: 54 4C : 00 00 08 44				
Firmware Upload				
Remote Device				
Manufacturer				
DEC4 Interface				
Software Version:				
0.01.012				
File: C:\DEC Firmware\544C0006-0193.FUD				
Success 💛				
100 %				

Repeat from stage 8 to 11 for each additional file to upload.

On completion of the upload, dismiss the upload window and return to the main window.

Close the application and disconnect the USB Cable from the SCB

Important:

If the Tempest enclosures are connected to an RDM interface or controller, set the DATA MODE for each enclosure as follows:

RDM MONITOR ONLY To view status information over RDM

RDM + CONTROL To monitor and over RDM and control the Lamp/Projector relays via DMX

If the enclosures are connected to an Ethernet network for monitoring using TEMP (Tempest Equipment Management Protocol) then the appropriate mode