

TECHNICAL NOTE

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Ref: TN570

Raised by: RW

Distributed to: As Required



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Upgrading SD12 to V1619

These instructions will guide you through updating your SD12 Console to the latest release V1619.

V1619 replaces V1528 as the latest release.

Please note that if you are upgrading from V1069 or earlier as part of the SD12 Worksurface upgrade, there are additional changes required. Please carefully read and follow these update instructions.

To purchase the SD12-96 upgrade, please visit www.digico.biz

Please note that in the unlikely event that the Local IO fails to update correctly, you may be required to reprogram it using an ICD2 programmer. Please consult your local DiGiCo distributor for more information.

The required Firmware upgrades are shown in the table below.

Allow yourself plenty of time to perform these upgrades.

The following table lists the versions and codes you will end up with after performing this update

	Version 1528	Version 1619
Software	15.0.1528	16.0.1619
Worksurfaces	47	47
Local I/O	57	57
GPIO – SD12GPIO.hex	10	10
Engine: HOST – sp6v.bin	05/11/2021	05/11/2021
Engine: FPGA – sp6e.bit	29/01/2013	29/01/2013
Engine : Effects	18/04/2012	18/04/2012
Vulcan Host – VulcanTiva.dfu	27	27
Vulcan FPGA – Vulcan_Interface_FPGA.bit	22/02/2017	22/02/2017
USB Audio – XMOS.bin	03/10/2016	03/10/2016
D-Rack: Drack8b.bin	10/12/2014	10/12/2014
D-Rack : Drack8b.bit	13/03/2014	13/03/2014
D2-Rack: D2rack.bin	03/11/2017	03/11/2017
D2-Rack:D2rack.bit	01/04/2014	01/04/2014
SD-Rack: Rack8b.bin	21/09/2016	21/09/2016
SD-Rack : Rack8b.bit	05/07/2012	05/07/2012
Optocore V221 Firmware	V5R3	V5R3

Disconnect All Local I/O, Rack Audio and Headphone Connections before proceeding with this upgrade.

Quit to Windows (*system>quit to windows*)

1. Copy the Software Updater **SD12_V1619z_Updater.exe** onto a suitable USB Key and insert into a free USB Socket on the SD12.

2. Left Click on the **Start Menu** and choose **DiGiCo (D:)**. The explorer window will now open.

Navigate to your USB Key and run **SD12_V1619z_Updater.exe** from your USB Key. This updater will install the required updates, application software, and backup your current SD12 application folder.

3. The **UpdateHardware** application will now automatically run.

For each device, you will see the current running version in the “running” column, with the new version in the “available” column. The available version is based on the corresponding file in D:\SD12 directory.

Now proceed with the console firmware updates in the following order:-

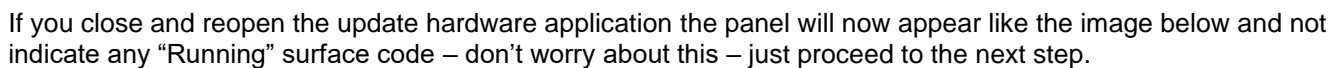
None required

If you are upgrading from a version earlier than V1528, they may be additional updates to perform.

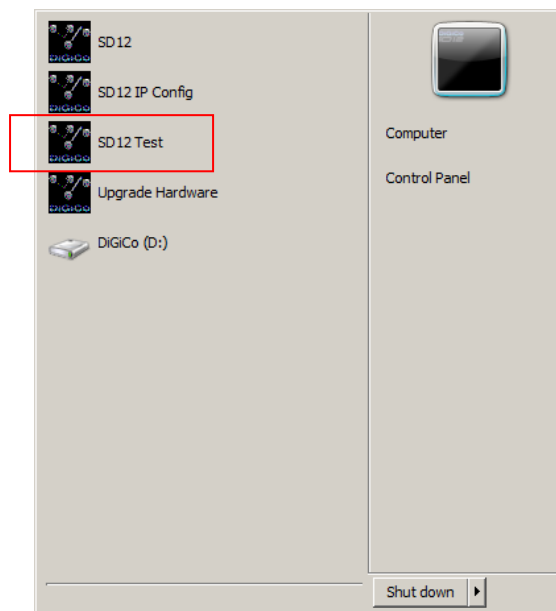
V1619 contains firmware updates for the following DMI Cards.

None

When both surfaces have been updated the panel should look like this – please note that it appears to still require an update – this is just a symptom of not having completed the following part of the process involving the change of Baud rate – see next step...



4. From the Windows Start Bar, run the “SD12 Test” application as in the image below:



The application looks like the image below.

5. Click on the “Configure Ports” button in the top right corner of the panel.



The Configure ports panel will open.

6. The Baud Rate or Ports 1 and 2 which should be set to 115200 must be changed to **256000** by typing into the relevant text boxes and then clicking OK at the bottom of the panel.

	baud rate	enabled	com port
All	115200	<input checked="" type="checkbox"/>	
1	115200	<input checked="" type="checkbox"/>	4 VCP1
2	115200	<input checked="" type="checkbox"/>	3 VCP0
3	102400	<input checked="" type="checkbox"/>	5 VCP2
4	102400	<input checked="" type="checkbox"/>	6 VCP3



	baud rate	enabled	com port
All	115200	<input checked="" type="checkbox"/>	
1	256000	<input checked="" type="checkbox"/>	4 VCP1
2	256000	<input checked="" type="checkbox"/>	3 VCP0
3	102400	<input checked="" type="checkbox"/>	5 VCP2
4	102400	<input checked="" type="checkbox"/>	6 VCP3

6. Close the SD12 test Program.

7. From the Start Menu, shut down the console and power off.

8. Power the console on. The console will launch straight into the SD12 application.

You should check that all the components have updated correctly in the Diagnostics Panel.

Open this from the System Menu / Diagnostics.

The First Tab (Console) will show the version for the Worksurfaces, Local IO and GPIO that you have updated (if any).

The second Tab (Engine) will show the Engine Codes you have updated. Confirm that the Engine Host, Effects & FPGA Code Downloaded Dates match the date listed on the first page of this document.

The Third Tab (Audio) will show the Rack and DMI codes you have updated.

If, after following all the instructions, you cannot upgrade your SD12, please contact DiGiCo Technical Support.