



# AvoKey Installation

Using the 1x5 way to USB A cable PN.1808-0028



AvoKey Hardware installation guide for

Sapphire Touch

All consoles

i.e. Consoles requiring an extra USB cable

Avolites Kit number 8000-6102 Version 1.0

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Useful Avolites phone numbers:

Avolites England

Sales and service\* (+44) (0) 20 8965 8522

Service out of hours\*(+44) (0) 831 17 8888

Fax (+44) (0) 20 8965 0290

Email [repairs@avolites.com](mailto:repairs@avolites.com)

Website <http://www.avolites.com>

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**C O N T E N T S**

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## IMPORTANT NOTES:

The document is divided into chapters depends on the console type or TNP and motherboard installed in the console or TNP.

Read the relevant section of this document at least once before starting the installation.

If in doubt contact your reseller or Avolites for support direct.

Perform the upgrade in an area with good work lighting and clear working space.

Have a small container handy to put screws in as you remove them.

Please note that it is possible that your console does not have a motherboard listed below, this can be because the original MB had failed, and the original MB was not available anymore. In this case contact Avolites direct to establish which kit you may need.

After the installation of the Avokey you can use the console as normal with software versions before V12. In order to use V12 you will need to download it and install as per normal, this is then followed by the "authentication" process to licence the console or TNP for V12. This only needs to happen once.

See the V12 installation notes for further information

Console an and TNP licenses are Hardware locked, therefore once authenticated against a specific console or TNP the dongle will only work in that product.

## 1. Safety notice

### Before you open the console



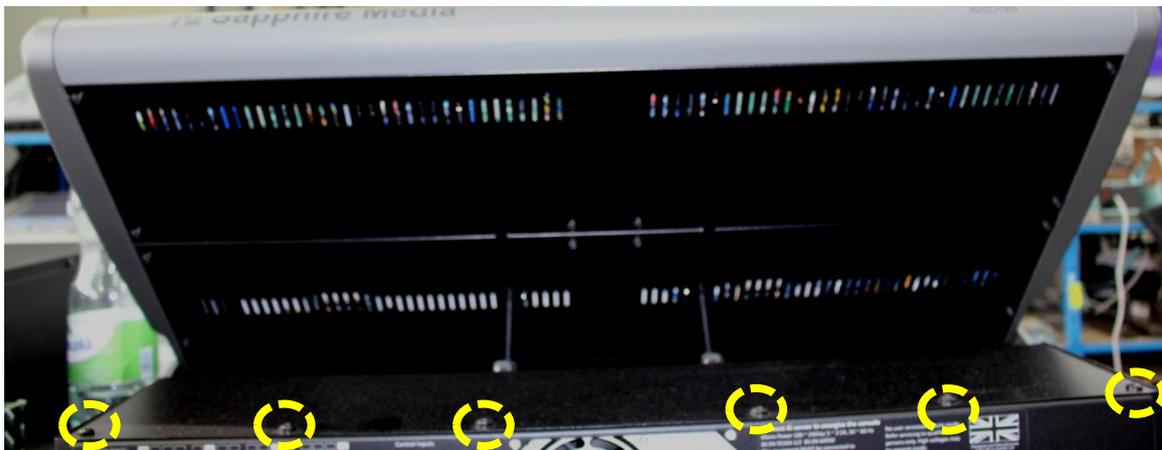
Disconnect the console from the Mains supply and other electrical connections

Observe anti-static measures by either using and anti-static strap connected to the console or by touching the internal metal PSU housing when working inside the console like connecting the AvoKey

## 2. Sapphire Touch

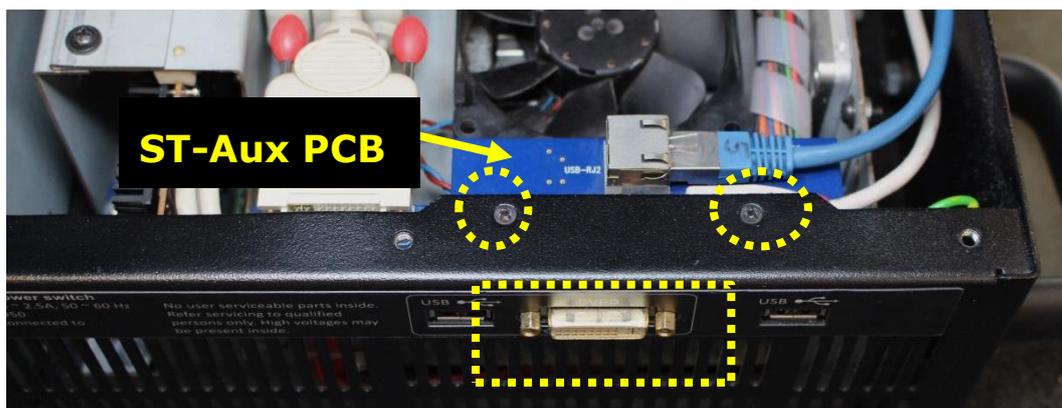
**Assure that the console is not connected to the mains supply.**

Unscrew 6x M4x8 screws with cup washers (circle) and remove Rear Shell Lid

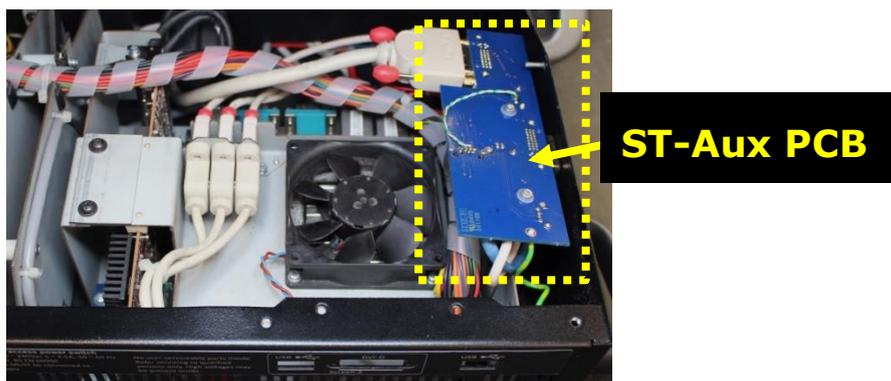


### 2.1 Commell LV-67H (ST-00001 – ST-00299)

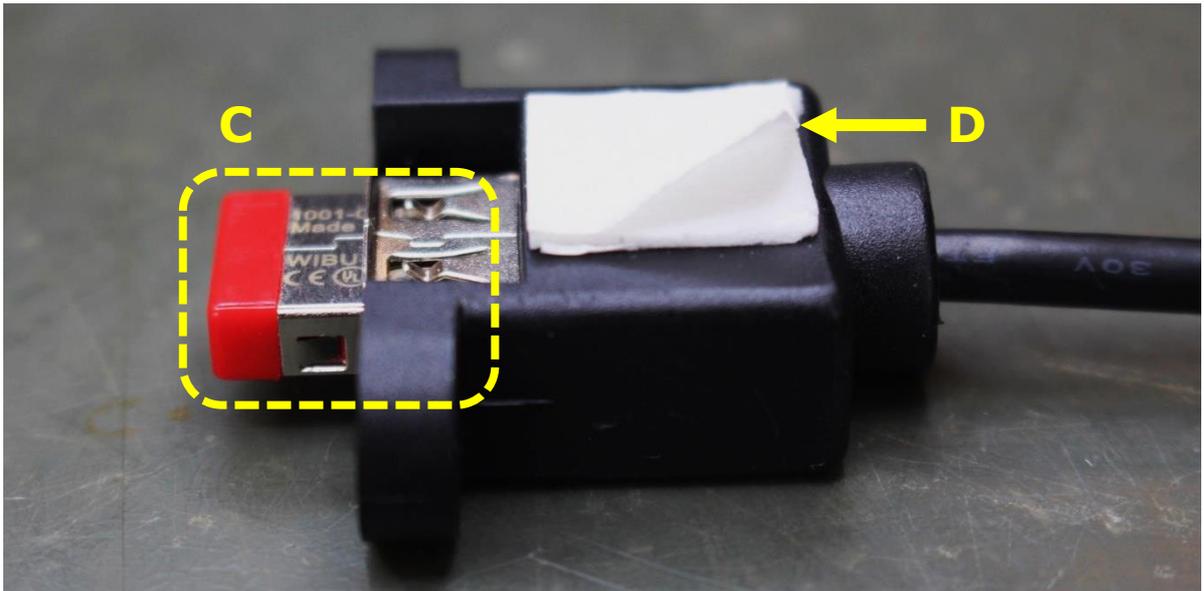
A. Unscrew 2x M3x6 CSK screws (circle) and 2x Hex screws (rectangle) as marked below



B. Remove ST-Aux-1 PCB and move it to the right, there is no need to disconnect the cables from the ST-Aux-1 PCB

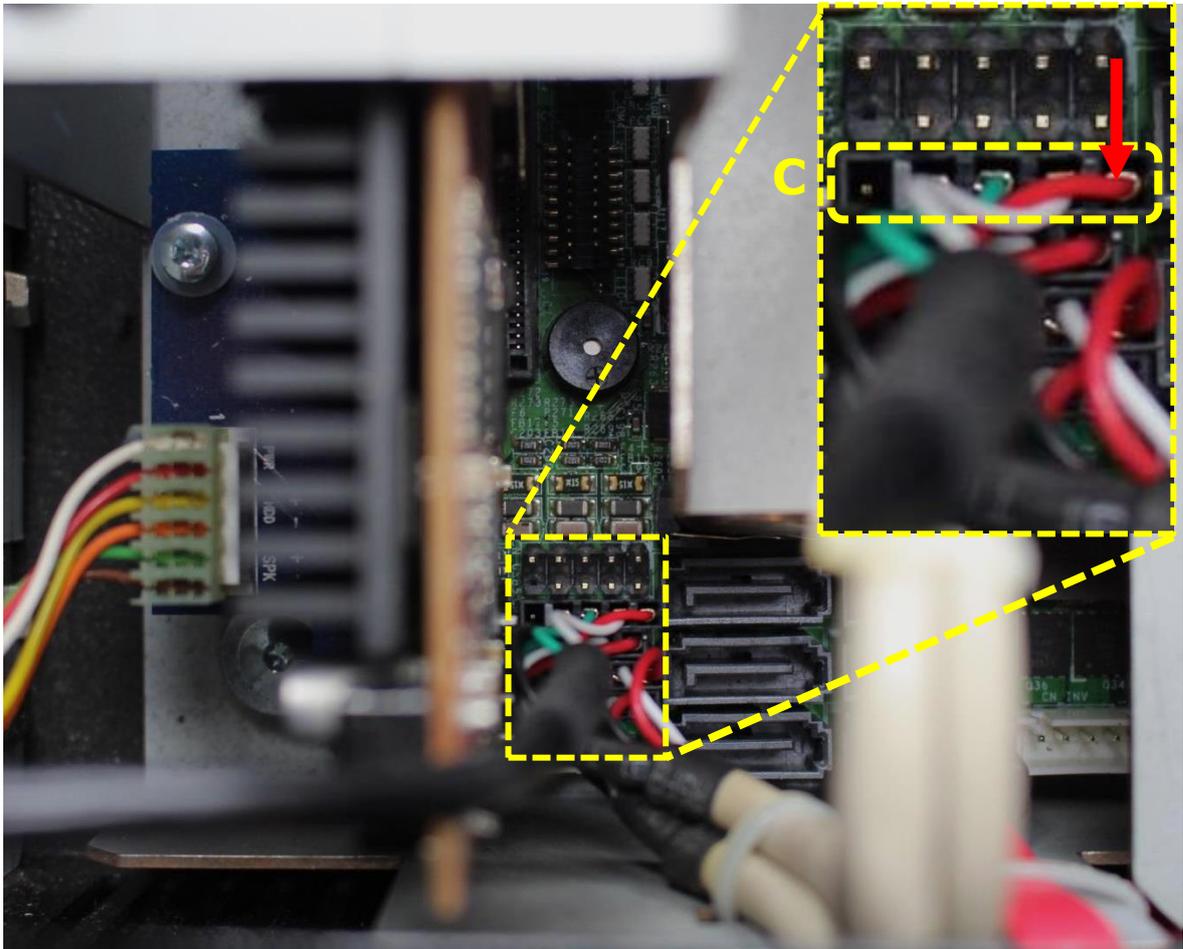


- C. Connect AvoKey to the supplied 1x5 way to USB Type A cable PN. 1808-0028  
D. Peel off the backing paper from the double sided tapetape

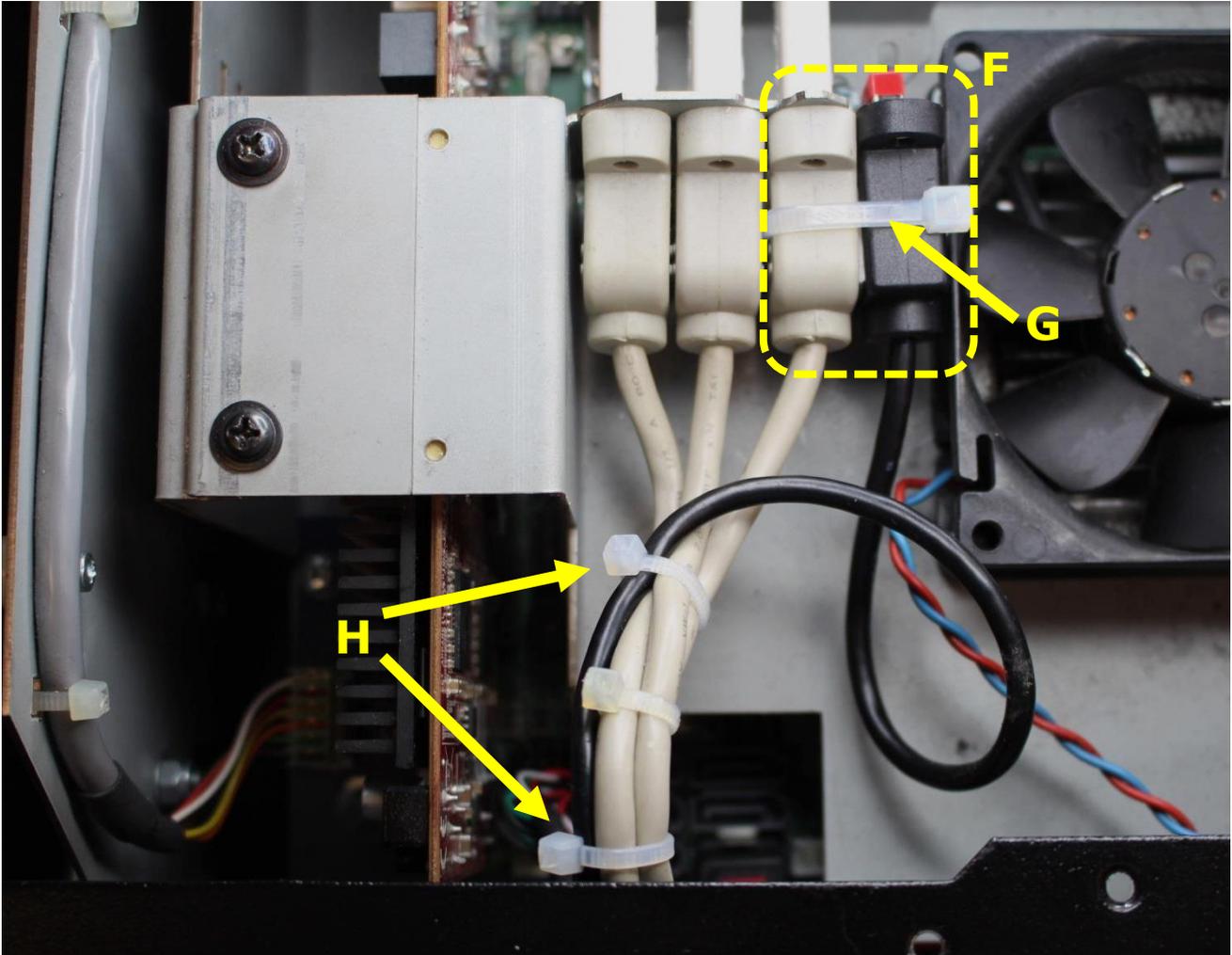


- E. Connect the 1x5 way side of the 1x5Way to USB Type A cable to the 5 pin USB port directly next to the existing loom as shown below (do not use the empty pair above)

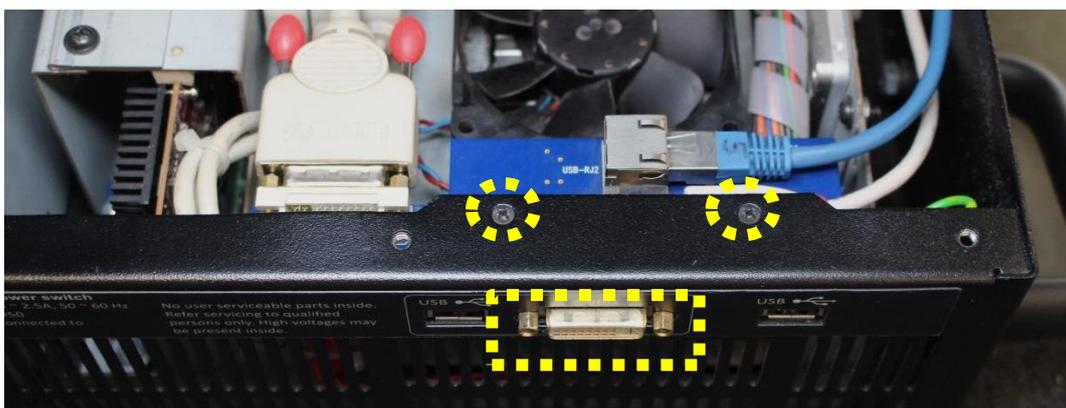
Assure that the with the Red wire is on the right (Red arrow).



- F. position the USB side 1x5 way to USB Type A cable between the fan and existing USB type A sockets as shown below
- G. Secure the USB Type A connector with large cable-tie
- H. Secure the cable to the USB cables with two cable-ties



- I. Reposition the ST-Aux-1 PCB as shown below
- J. Fix the board with 2x M3x6 CSK screws (circle) and 2x Hex screws (rectangle)

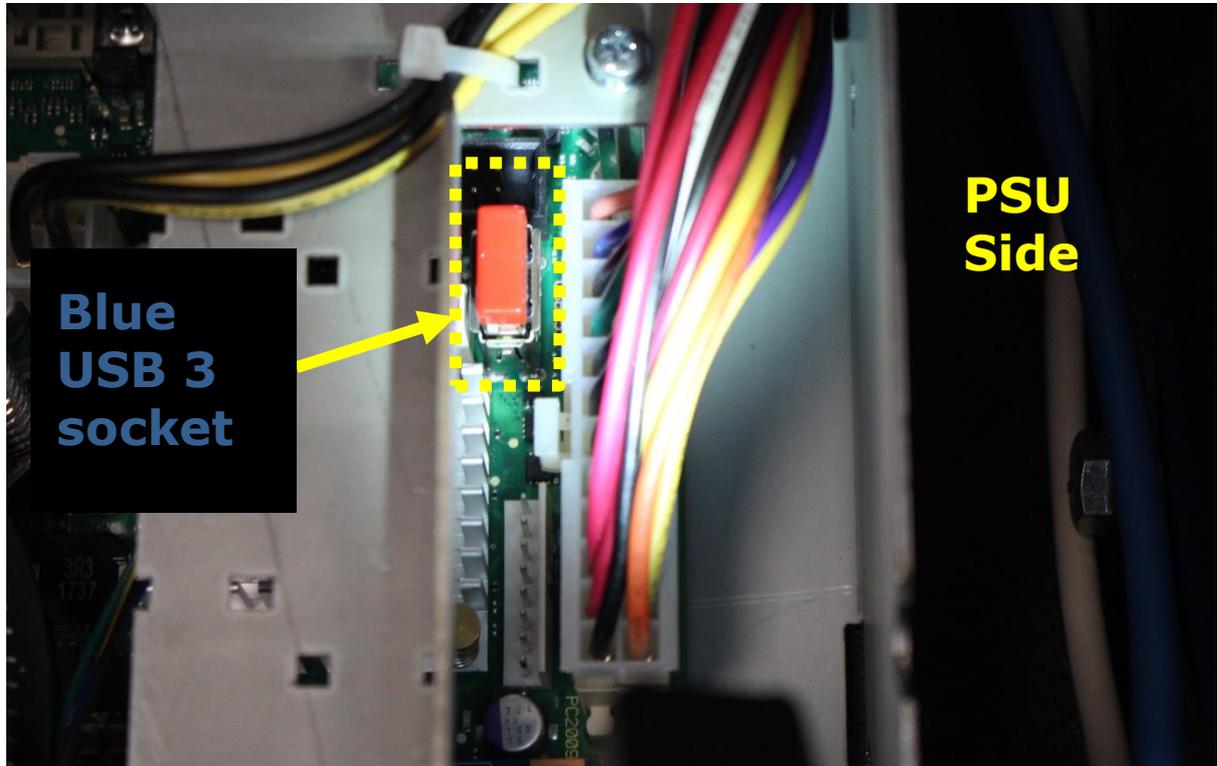


- K. Reassemble the Rear Shell Lid with 6x M4x8 screws with cup washers



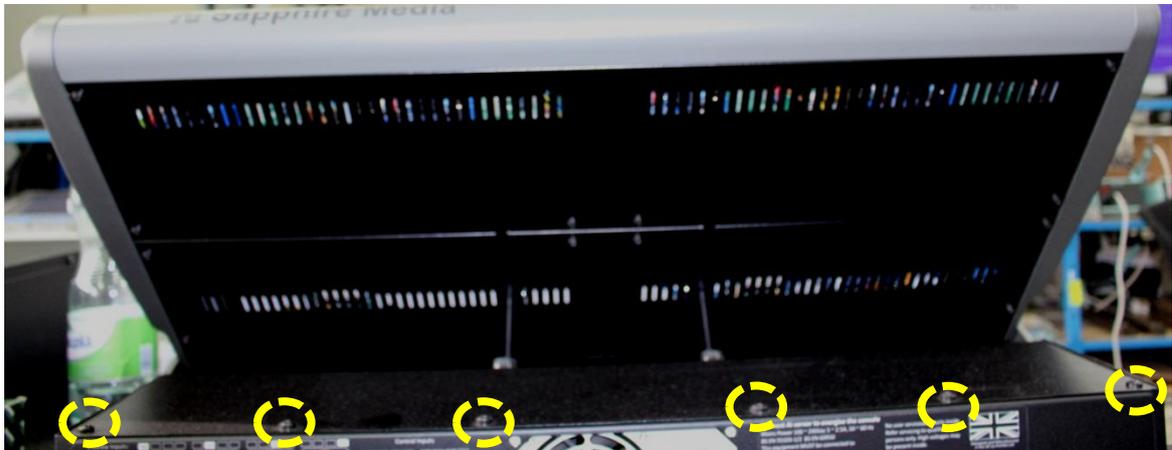
## 2.2 Fujitsu D3243 (ST-00300 – ST-00410)

- A. Locate Blue coloured USB3 port on motherboard next to the ATX Supply plug.
- B. Connect the AvoKey to this port



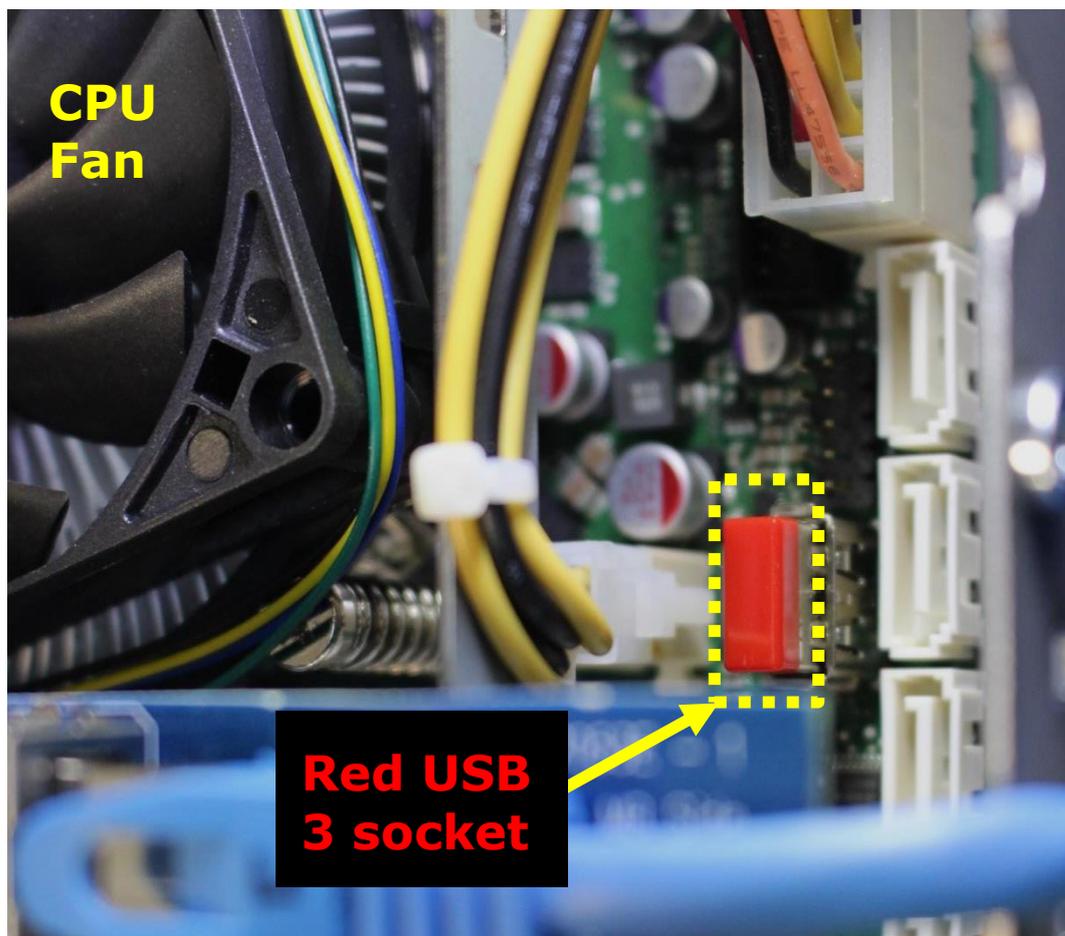
Fit the Rear Shell Lid and close the unit using retained fixing

NOTE: Ensure the Processor fan is not blocked from spinning by wires



## 2.3 Fujitsu D3633 (ST-00411 – onwards)

- A. Locate Red colour USB3.1 port on motherboard
- B. Connect the AvoKey to this port



Fit the Rear Shell Lid and close the unit using retained fixing

NOTE: Ensure the Processor fan is not blocked from spinning by wires



NOTE: Ensure the fan supply wires are away from processor fan

### 3. Relicensing Versions before V12

You will not need to re-licence the software if the version is before V12.

### 4. V12 installation and authentication

To install V12, download and follow the V12 installation notes from the Avolites website  
After installation an authentication step is required to licence the AvoKey.

### 5. Letting us know

We care about our products, and therefore we want to know as much as we can about each console that we have made. This upgrade is major and we want to keep track of that. So email us the details as listed below so we can update our records.

Further if you have any comments about this document or procedure let us know as well so we can improve where needed.

Send the email to [repairs@avolites.com](mailto:repairs@avolites.com)

Data to include:

- Console serial number
- client name if known
- your name or company name
- Date of upgrade