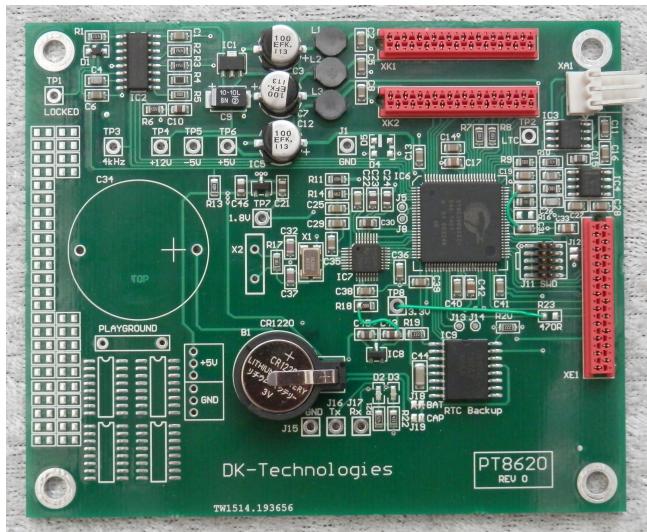


PT8620 LTC option for PT5300 HD SD Varitime Sync Generator.



The PT8620 option should only be installed by technical qualified personnel.

The PT5300 HD SD Varitime Sync Generator is in the rest of this document referred to as the PT5300.

For the PT5300 to support the PT8620 option, the master software must be upgraded to version 6.6 or later.

The version of the master software can be identified during power up of the Sync generator. Immediately after the self-test the display shows "Version: xx.x-yy.y", where xx.x indicates the master processor software version and the yy.y indicates the internal sync pulse generator software version.

Packing list:

1.	Hexagonal spacer 16 mm, M3	4008 107 27480	4
2.	Pan Head Screw M3x4	2522 178 31050	4
3.	Ribbon Cable with 3 micro 20 pole connectors	4008 105 04850	1
4.	Ribbon Cable with 2 micro 20 pole connectors	4008 105 04030	1
5.	12,7x3,2 mm Nylon Dome Plug	4008 108 04650	1
6.	XLR cable assembly	4008 105 06030	1
7.	PT8620 LTC Module	9449 086 20001	1
8.	PT5300 Master Prom v. 6.6.	4008 102 08161	1

Before you begin the upgrade process please make sure you have powered off the PT5300 and removed all connections to the PT5300 Sync Generator!

Installation procedure for PT8620 module:

Step 1.

Remove the 20 pozidriv screws holding the top cover and lift off the top aluminum plate.

Figure 1 below shows a PT5300 with the top cover removed and the options PT8611, PT8616, PT8620 and PT8643 installed.

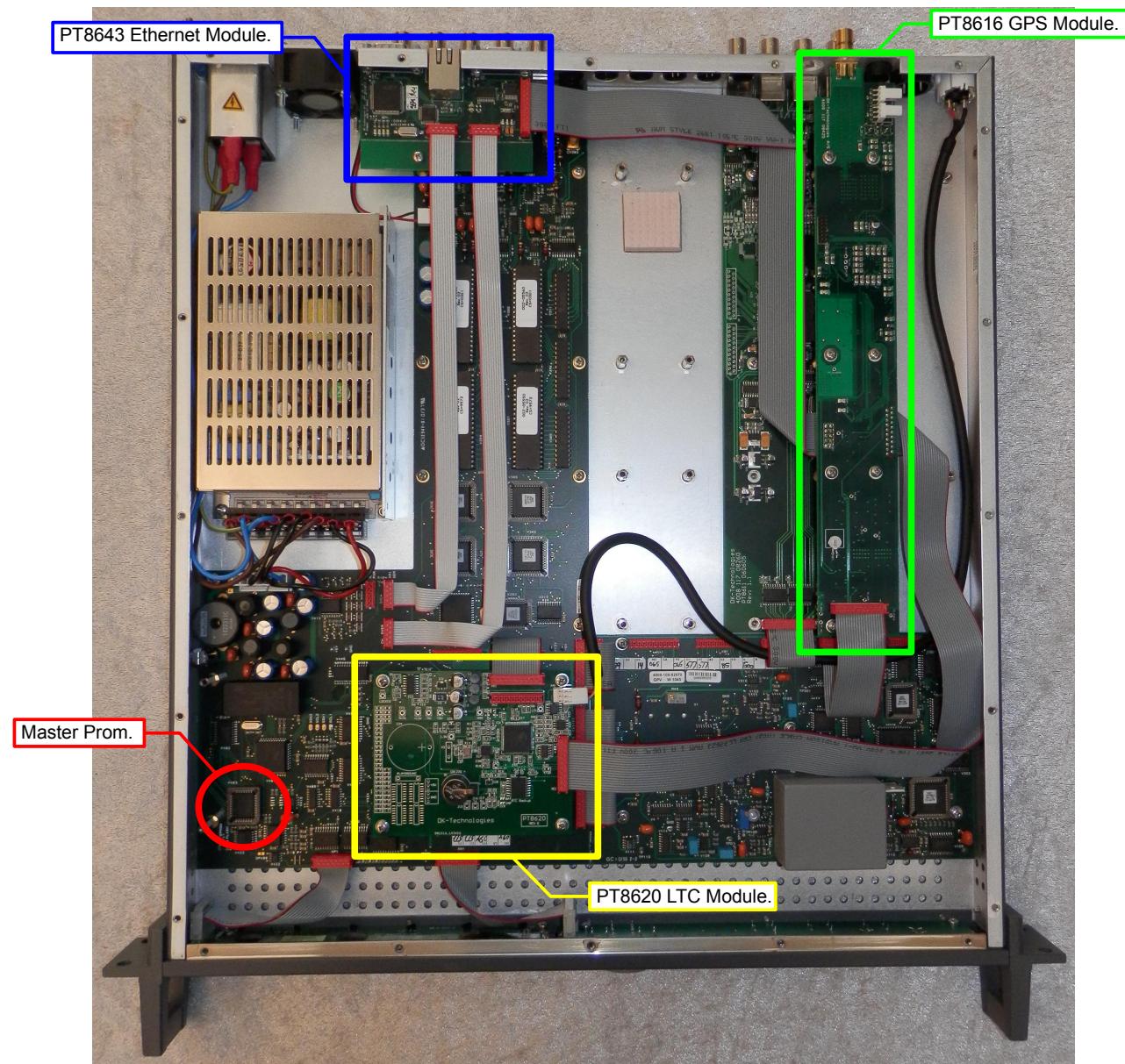


Fig. 1.

Step 2.

Replace the Master Software prom marked with red circles in figure 2 and 3, with the one enclosed in the PT8620 Kit. The Master Prom is mounted in a socket named V403 located in the bottom right corner of the PT5300 main-board

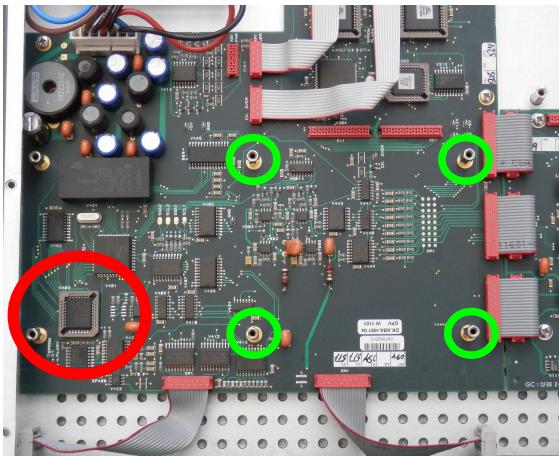


Fig. 2. Bottom right corner of the PT5300 Main-board

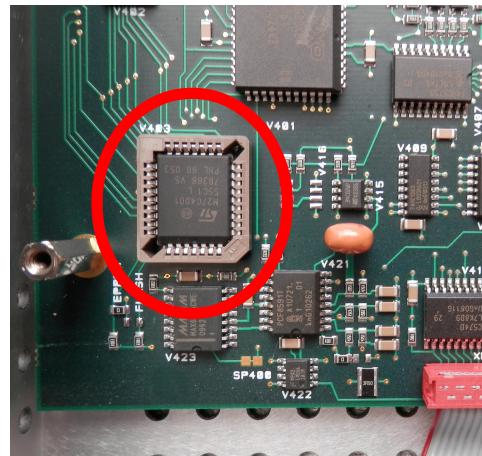


Fig. 3. Closeup of the Master Prom.

Step 3.

Install the 4 hexagonal spacers marked with green circles in figure 2. Then install the PT8620 LTC module using the 4 pan head M3 x 4 screws as shown in figure 1.

If there is attached a piece of paper to the battery on the PT8620 module, please remove it to enable the realtime clock.

Step 4.

Install the short ribbon cable with two connectors from the connector named XK1 on the PT5300 main-board to the connector named XK1 on the PT8620 module as shown in figure 4.

Please make sure that the polarizing pin on the cable fits into the hole in the PCB both on the main-board and the PT8620 module.

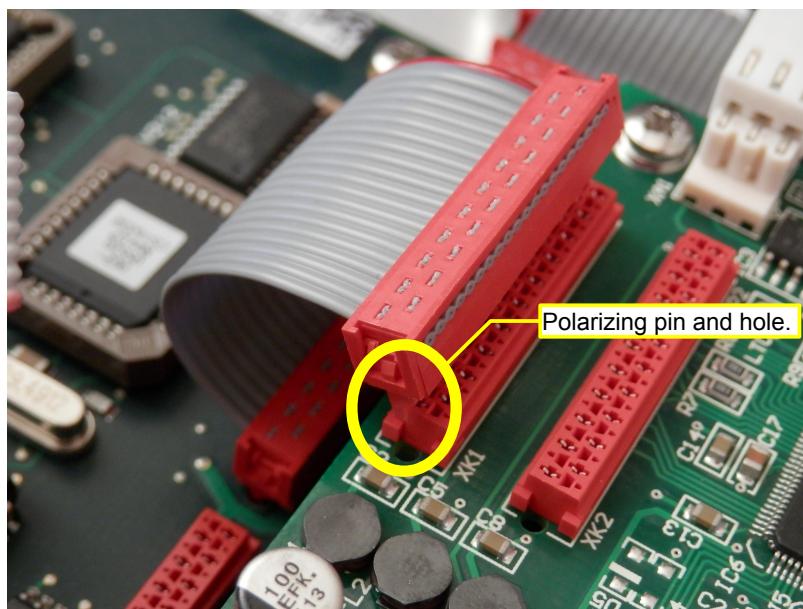


Fig. 4. XK1 connection.

Step 5.

If the PT8616 GPS Module is installed, the long ribbon cable with 3 connectors should be connected from connector XE1 on the PT8620 module to the connector on the PT8616 board and connector J5 – GPS on the PT8643 Ethernet module as shown in figure 1. Again please make sure that the polarizing pins fits into the holes in the PCB.

If no PT8616 GPS module is installed this cable should not be used.

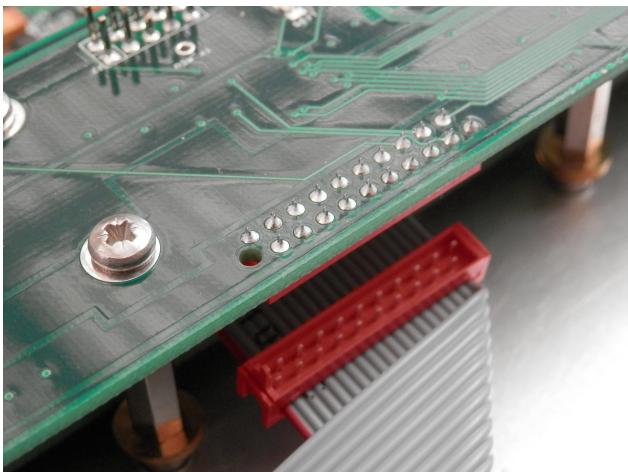


Fig. 5 Closeup of PT8616 connector.



Fig. 6. Closeup of the PT8643 connector.

Step 6.

If a PT8616 GPS module was installed using BNC connectors for the LTC output (as shown in figure 7), please disconnect the BNC connector from the PT8616 GPS module as shown in figure 8 and unscrew the connector from the back plate.

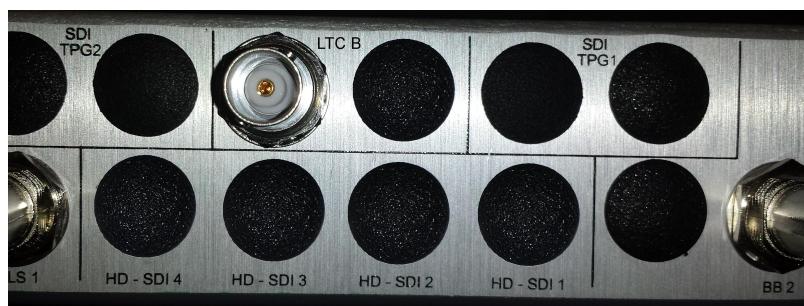


Fig. 7.

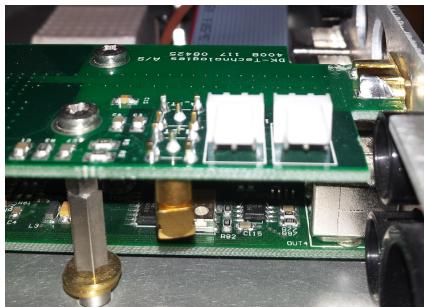


Fig. 8.



Fig. 9.

When the BNC connector has been removed, use the black nylon dome plug to close the hole in the back panel.

Step 7.

Install the XLR cable assembly in the leftmost hole in the back of the PT5300 using the two countersunk M3 screws as shown in figure 10.



Fig 10. LTC XLR Connector.

When the XLR connector is installed, the cable from the XLR connector should run along the side of the PT5300 aluminum frame as shown in figure 1 and the 3 pin connector should be connected to XA1 on the PT8620 LTC Module.

The PT8620 LTC module is now installed and the top cover should now be reattached using the 20 screws.

Step 7.

When the PT5300 has been reassembled a factory reset of the PT5300 must be performed. This is to ensure that the PT8620 LTC Module is initialized correctly. The factory reset is performed by powering up the PT5300 while pressing and holding the LEFT and RIGHT buttons down simultaneously, the display will say factory reset.

