

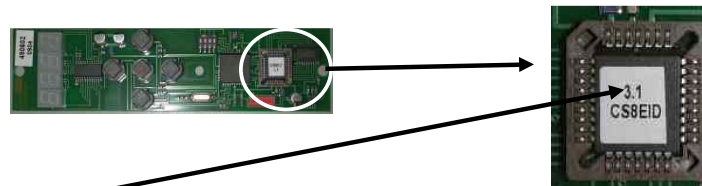
TCH Module Software release overview

Please remark that we have 2 different kinds of software in a TCH system.

1) System controller Software labelled on the EPROM and the modules

Version	Date YYMMDD	Changes and fixes
2.0		DSB digital + Analogue modules
2.1	010529	DSB / VSB digital + Analogue modules
2.2	010802	DSB / VSB digital + Analogue modules + CA-menu
2.3	011101	Including 490635 + 490637 modules
2.4	020422	To identifying the 490631, without electronic attenuator. The ATT menu is substituted by ON / OFF witch turn the modulator on and off. The same on and off is made for the 490671 module.
2.5	020909	Including 490677 and 490679, and capable to send test pattern from modulators.
2.9	040618	Handling new modules 490647.490648-490678
3.0	041008	Implementing new CAM filters on all modules with VSB modulator
3.1	041024	3.0 was not able to handle first generation Analogue modules with electronic attenuator.
3.1A	041024	Handles 7MHz channel raster for Australia.

Analogue modules software ID



REMARK:

System software "SW 3.1" shall be equal or higher than "EPROM SW Ver." showed on the label.

Digital modules software ID

The stock code number of the EPROM latest version is 300165.

TCH Digital MPEG Software release overview



2) MPEG Software version labelled on each module (small label).

Version	Build date YYMMDD	Changes and fixes
1.00	010625	Check of hw version of pcb 480888 added for modification of colour sub carrier frequency for versions lower than D.
1.10	010627	Extended PMT check on power-on and running version check for detecting changed video-, audio- and teletext PID.
1.13	010703	Minor fixes. (for test equipment)
1.14	010802	CA (Reset's if CA module taken out when power is on) CA Card information menu added, see TCSD manual.
1.16	010910	CA modified for supporting Alpha Crypt (Austria).
1.20	011101	Watchdog improved with black-screen detect/audio hang-up. Hallmark/BBC Prime subtitle fixes.
1.22	020307	Watchdog improved on weak signals. Subtitle fix.
1.23	020602	16:9 format converted to Letterbox.
1.24	300802	Support of more audio streams on Aston CA module
1,25 -1	260802	Support for new CI Stream Type.
1,25 -2	220503	Extended CI_MMI debug.
1,25 -5	270503	Extended debug on PSI PMT: Service Id.
1,25 -6	280503	Multiple programs on same PMT integrated.
1,25 -8	280503	Subtitle bug on Travel fixed. (Frame filter)
1,26	280504	Modified to work with new AstonCrypt CAM.
1,32	110305	Automatic WSS Wide screen signalling conversion.

MPEG Software ID



MPEG software

The MPEG software contains all settings on the DVB module ex. freq, symbol rate, ... etc. The latest version of this software is always available from the net at www.triax.com. A small label on the MPEG PCB indicates the software version loaded from factory.