TDH 841/842
Quad PAL backend modules
- FTA or with 2 x CI slots

The TDH 800 quad PAL backend is an output module that enables you to distribute up to 4 services/TV programs available in the TDH 800 pool. The TV programs are chosen from the TDH 800 service tool.
The PAL output modules can be delivered in a free-to-air version or with 2 CI slots for decryption.

Features:
- Quad PAL backend module for FTA or for decoding content/ services
- VBI-insert (VPS, WSS, Teletext)
- Teletext subtitles
- DVB-subtitling
- MPEG-1 and MPEG-2 main profile at main level, including non-standard resolution
- MPEG-4 visual main profile up to level 4 and advanced simple profile up to level 5, including non-standard bit rate
- MPEG-4 AVC/H.264 (ISO/IEC 14496-10) Baseline profile up to level 3 at standard definition and including non-standard bit rates and resolutions at standard definition.
- Audio decoding: AAC, dual channel HE-AAC, MPEG 1 layer 1 and 2, MPEG2 part 3
- Analogue video encoding: PAL (B/G, L, D/K, I) and SECAM
- Audio encoding: NICAM and A2 stereo, FM mono (PAL) and AM mono (SECAM).
- All services will be transferred to the TDH 800 pool.
- Supports decoding via CA (692851)

Technical data: - see next page

Quad PAL backend module - FTA

Quad PAL backend module - with 2 x CI slots

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Technical data

Type:		TDH 841 Quad PAL backend output module FTA	TDH 842 Quad PAL backend output module CI
Art. no.		692850	692851
Modulator			
TV-norm		PAL (B/G, L, D/K, I), SECAM	
System		VSB VHF/UHF mono. A2, Nicam	
Output frequency range	MHz	47-862	47-862
Channel raster	MHz	7 / 8	7 / 8
Channel raster step	kHz	250	250
Picture carrier stability:	kHz	< ±30	< ±30
Spurious signals ref. picture carrier (24 ch.)	dB	< - 60	< - 60
Output level adjustment	dB	+ 3…- 17	+ 3…- 17
Output level in TDH 800 system	dBµV	93.0	93.0
Output impedance	Ohm	75	75
Return loss output	dB	> 10	> 10
Differential gain	%	< 8	< 8
Differential phase	Deg.	< 8	< 8
Group delay	ns	< 80	< 80
Video S/N ratio	dB	> 54.5	> 54.5
Sound sub carrier stability (NICAM)	kHz	± 1	± 1
Audio S/N ratio	dB	50	50
Sound sub carrier	MHz	5,5 / 5,74 / 5,85 / 6,0 / 6,5	5,5 / 5,74 / 5,85 / 6,0 / 6,5
Sound sub carrier stability (mono)	kHz	< ± 1	< ± 1
Sound sub carrier stability (A2)	kHz	< ± 1	< ± 1
General			
Supply voltage	V	12.0 ±1	12.0 ±1
Max. supply current (FTA / CI)	A	1.6	1.8
Mechanical data			
RF connector		IEC - female	IEC - female
Power supply/control connector		PCI Express Edge connector 36P	PCI Express Edge connector 36P
Weight	kg	0.430	0.460
Dimension (HxDxW)	mm	12 x 266 x 180	21 x 266 x 180

Recycling:

This product is manufactured in compliance with current EU environmental and recycling requirements and standards (WEEE, RoHS, etc.). Please observe your local implementation and requirements when recycling.