

TDX - Quad PAL backend modules - FTA or with 2 x CI slots

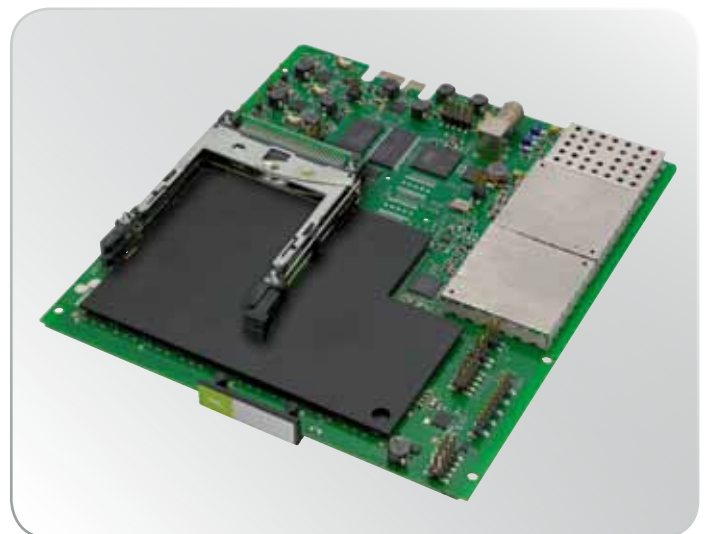
The TDX quad PAL backend is an output module that enables you to distribute up to 4 services/TV programs available in the TDX pool. The TV programs are chosen from the TDX pool either by the web configurator or the TDX service tool. The PAL output modules can be delivered in a free-to-air-version or 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 and high 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. Main profile up to level 4. High profile up to level 4.
- Audio decoding: AAC, 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).
- Hot swap service in TDX system.
- All services will be transferred to the TDX pool.
- Supports decoding via CA (492051)



Quad PAL backend module - FTA



Quad PAL backend module - with 2 x CI slots

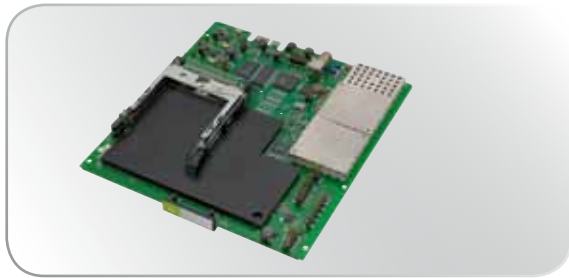
Technical data:

- see next page



TDX - Quad PAL backend output modules

- FTA or with 2 x CI slots



Technical data

Product		Quad PAL backend output module FTA	Quad PAL backend output module CI
Art. No.		492050	492051
Modulator			
TV-norm	PAL (B/G, L, D/K, I), SECAM	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 TDX system	dB μ V	103.0	103.0
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 carrier to noise ratio	dB	57	57
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	< ± 5	< ± 5
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	mm	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.

