

TDX - Quad PAL HD downscale backend modules

- FTA or with 2 x CI slots

The TDX quad PAL HD downscale modules can take any HD service from the TDX pool, scale the service down to SD format, modulate it to a PAL signal and distribute it in a PAL network. You can distribute 4 PAL services / TV programs from each module, equal to 24 PAL services from one cabinet.

The PAL HD downscale module comes in 2 versions, a Free-to-Air version and a CA version with 2 CI slots for decoding of content / services.

Features:

- Video downscaling from HD (in MPEG4 AVC/H.264 format and decode for single HD up to 720p and 1080i to SD
- Quad PAL output module for FTA or for decoding content/ services
- VBI-insert (VPS, WSS, Teletext)
- Teletext subtitles
- DVB-subtitling
- Video decoding: MPEG-2, main profile, main level
- Video decoding: MPEG-4/ H.264 MP @ level 2.2
- 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), AM mono (SECAM) and dual sound
- HOT SWAP Service in TDX system
- Supports decoding via CA (492053)

Technical data:

- see next page



Quad PAL-HD backend module - FTA

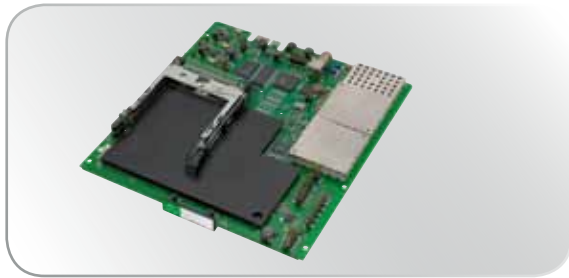


Quad PAL-HD backend module - with 2 x CI slots



TDX - Quad PAL HD downscale backend modules

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Technical data

Product		PAL HD downscale backend module - FTA	PAL HD downscale backend module - CI
Art. No.		492052	492053
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 S/N 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.



TRIAX - your ultimate connection

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