

TDH digital satellite modules QPSK-PAL



TDH DVB-S modules convert a coded or uncoded digital signal from a satellite to a modulated PAL/SECAM signal for distribution in a community cable system.

- Full-band high-quality modulator
- Conditional access via CI or Free To Air
- Advanced watchdog function
- Fully DVB S compatible
- Multi language menu
- MPEG transport stream available for slave modules
- Mono sound / A2 stereo / Nicam available

Technical data TDH - DVB-S master modules (VSB) VHF/UHF

TYPE	Norm	DVB-S master with CI			DVB-S master Free to air		
		Mono	A2 stereo	Nicam	Mono	A2 stereo	Nicam
Part No.	B/G	490742	490743	590743	490746	490747	590747
	D/K	490702	490703		490722	490723	
	Norm L	490702		590703	490722		590723
	Pal I	490702	590743		490722		591623
Modulator type		VSB	VSB	VSB	VSB	VSB	VSB
Input frequency range	MHz	920 - 2150	920 - 2150	920 - 2150	920 - 2150	920 - 2150	920 - 2150
Input level *	dBµV	44...84	44...84	44...84	44...84	44...84	44...84
IF bandwidth	MHz	36	36	36	36	36	36
Output channel frequency range	MHz	2...69	2...69	2...69	2...69	2...69	2...69
		47 - 862	47 - 862	47 - 862	47 - 862	47 - 862	47 - 862
Output level SA modules **	dBµV	103	103	103	103	103	103
Output level attenuator	dB	10	10	10	10	10	10
Video S/N ratio	dB	> 54	> 54	> 54	> 54	> 54	> 54
Differential phase	deg.	< 8	< 8	< 8	< 8	< 8	< 8
Picture carrier stability	kHz	< +/- 70	< +/- 70	< +/- 70	< +/- 70	< +/- 70	< +/- 70
Spurious signals ref pict. carrier C/N	dB	> - 60	> - 60	> - 60	> - 60	> - 60	> - 60
Sound mode		Mono	A2 stereo	Nicam	Mono	A2 stereo	Nicam
Audio distortion @ 1 kHz	%	< 1	< 1	< 1	< 1	< 1	< 1
Audio S/N ratio	dB	> 50	> 50	> 50	> 50	> 50	> 50
Sound sub carrier stability	kHz	< +/- 5	< +/- 5	< +/- 5	< +/- 5	< +/- 5	< +/- 5
LNB control 13/18 volt - 0/22 kHz	mA	200	200	200	200	200	200
Conditional access	EN	50221	50221	50221	FTA	FTA	FTA
Teletext type		Reinserted in VBI	Reinserted in VBI	Reinserted in VBI	Reinserted in VBI	Reinserted in VBI	Reinserted in VBI
Demultiplexer data rate	Mbps	< 65	< 65	< 65	< 65	< 65	< 65
Video data rate	Mbps	< 15	< 15	< 15	< 15	< 15	< 15
Viterbi rates	Mpps	1-30 (SCPC/MCPC)	1-30 (SCPC/MCPC)	1-30 (SCPC/MCPC)	1-30 (SCPC/MCPC)	1-30 (SCPC/MCPC)	1-30 (SCPC/MCPC)
Impedance	Ohm	75	75	75	75	75	75
Operation temperature range	°C	-10...+50	-10...+50	-10...+50	-10...+50	-10...+50	-10...+50
Power supply - stand alone module	VAC	190 - 260	190 - 260	190 - 260	190 - 260	190 - 260	190 - 260
Weight - standard module	kg	0.45	0.45	0.45	0.45	0.45	0.45
Dimensions (H x D x W)	mm	150 x 230 x 50	150 x 230 x 50	150 x 230 x 50	150 x 230 x 50	150 x 230 x 50	150 x 230 x 50
Remarks		* Digital measuring - DCP ** Mounted in stand-alone cabinet					