



Modular reception system

Multichannel digital transmodulators

Converting of 16 DVB-S/S2 modulated input signals into 8 COFDM/QAM modulated DVB-T/DVB-C/J.83B channels.

- software switchable standards:
tdx4168: DVB-T
tdq4168: DVB-C/J.83B
- supporting EN50607
- TS processing:
any service to any output
PCR restamping
PSI/SI regeneration
NIT generation
PMT version monitoring
- BISS descrambling
- Web control and SNMP monitoring, E-mail notification
- loop through RF distributing at input and output
- DIN rail or wall mounting
- robust die-cast housing
- connectors:
RF input/output - type F
Ethernet control interface - RJ-45
screw terminal block for DC entry
power distribution bus

tdx4168
16 DVB-S/S2 transmodulators to 8 DVB-T channels

tdq4168
16 DVB-S/S2 transmodulators to 8 DVB-C/J.83B channels



| Technical specifications | | tdx4168 | tdq4168 |
|------------------------------------|-----------------------------------|-----------------------------------------------------------------|-------------------------------------|
| TYPE | | tdx4168 | tdq4168 |
| Ordering number | | 03876 | 03877 |
| Sections input/output | | 16/8 | |
| RF input | frequency range | 950-2150 MHz | |
| | LNB powering/control | 0/13/18 V & 22 kHz, 1000 mA total, DiSEqC 1.0, EN50494, EN50607 | |
| | level/impedance | 55-95 dBμV / 75 Ω | |
| | modulation | QPSK, 8PSK (DVB S/S2) | |
| | symbol rate | 2 ÷ 45 Ms/s | |
| | return loss | ≥ 10 dB | |
| | RF input count | 2 | |
| | loop through frequency range/loss | 950-2150 MHz / ≤ 1.5 dB | |
| RF output | standard | DVB-T | DVB-C / J.83B |
| | modulation | QPSK, QAM16, QAM64 | QAM16, QAM32, QAM64, QAM128, QAM256 |
| | frequency range | 170-230 MHz / 470-862 MHz | 96-862 MHz |
| | channel allocation, adjacent | 4 + 4 | |
| | level/impedance | 90 ± 2 dBμV/75 Ω | |
| | TS bit rate | < 31 Mbit/s | < 53 Mbit/s |
| | MER | ≥ 35 dB | ≥ 40 dB |
| | channel bandwidth | 7 MHz / 8 MHz | 4...8.3 MHz |
| | guard interval | 1/4, 1/8, 1/16, 1/32 | - |
| | code rate | 1/2, 2/3, 3/4, 5/6, 7/8 | - |
| | symbol rate | - | 3.5 ÷ 7.2 Ms/s |
| | return loss | ≥ 10 dB | |
| | roll off | - | 15% |
| | transmission mode | 2K | - |
| | total output level adjustment | 0 ÷ -15.0 dB by 1 dB step | |
| loop through frequency range/loss | 45-862 MHz / ≤ 2.5 dB | | |
| Management port | standard IEE802.3 10/100 Base T | | |
| Current consumption* | 12 V 1.2 A | | |
| Operating temperature range | 0° ÷ +45° C | | |
| Dimensions/Weight (packed) | 63x198x112 mm/1.12 kg | | |

pr. software control * without external DC feeding