

# ASTRO X-QAM duo 7 S2 (CI)

## SIGNAL CONVERTER 2 X DVB-S2 INTO 2 X 1 QAM



- plugin card for modular base units X-8 twin and V 16
- for processing of DVB-S(2) modulated SAT-IF signals into 2 independent QAM output channels
- integrated data rate adjustment
- PCR correction
- NIT generation
- Online-Service-PID-Filter
- 2 cascable CI interfaces with Multi Channel Descrambling
- outstanding output parameters by Direct Digital Technology

## SPECIFICATIONS

| TYPE                                      |          | X-QAM DUO 7 S2                                         | X-QAM DUO 7 S2 CI |
|-------------------------------------------|----------|--------------------------------------------------------|-------------------|
| DVB-S(2) DEMODULATOR                      |          |                                                        |                   |
| Connectors                                | [Ω]      | F-jack, 75                                             |                   |
| Input frequency range                     | [MHz]    | 950 – 2150                                             |                   |
| Input level                               | [dBμV]   | 44 - 80                                                |                   |
| Reflection loss                           | [dB]     | ≥ 10                                                   |                   |
| Input symbol rate                         | [MS/s]   | max. 30,0 (DVB-S2); max. 45,0 (DVB-S)                  |                   |
| DVB-S Viterbi                             |          | 1/2; 2/3; 3/4; 5/6; 6/7; 7/8                           |                   |
| DVB-S2 LDPC                               |          | 1/2; 1/3; 1/4; 2/3; 2/5; 3/5; 4/5; 5/6; 8/9; 9/10      |                   |
| DVB-S2 Roll-off-factors                   |          | 0,20; 0,25; 0,35                                       |                   |
| DVB-S2 Modulation                         |          | QPSK; 8PSK                                             |                   |
| QAM MODULATOR                             |          |                                                        |                   |
| Modulation                                |          | 16-, 32-, 64-, 128-, 256-QAM                           |                   |
| Signal processing                         |          | according DVB standard                                 |                   |
| Spectrum shape                            | [%]      | 15 (cos-roll-off)                                      |                   |
| FEC                                       |          | Reed-Solomon (204,188)                                 |                   |
| Output symbol rate                        | [Mbaud]  | 3,45 - 6,9                                             |                   |
| Bandwidth                                 | [MHz]    | 5, typ. 100 mA, switchable                             |                   |
| Brutto data rate                          | [MBit/s] | max. 55,2                                              |                   |
| TS EDITING                                |          |                                                        |                   |
| Data rate adjustment                      |          | yes                                                    |                   |
| PCR correction                            |          | yes                                                    |                   |
| NIT handling                              |          | yes                                                    |                   |
| PID filtering / remapping                 |          | PID remapping                                          |                   |
| Service filtering                         |          | Online Pass- / Drop-Filter                             |                   |
| CI interface                              |          | -                                                      | yes               |
| RF OUTPUT                                 |          |                                                        |                   |
| channel selective output filter pluggable |          | no                                                     |                   |
| Connectors                                | [Ω]      | IEC-jack, 75                                           |                   |
| Frequency range                           | [MHz]    | 47 - 862 (K2 - K69) in 0,1 MHz-steps adjustable        |                   |
| Output level                              | [dBμV]   | 80...96, adjustable                                    |                   |
| MER (Equalizer, 64 QAM)                   | [dB]     | typ. 45                                                |                   |
| Spurious frequency distance 40 - 862 MHz  | [dB]     | > 60 discrete interferences / > 57 noise interferences |                   |
| COMMON DATA                               |          |                                                        |                   |
| Power consumption                         | [W]      | 13,5                                                   | 15                |
| Ambient temperature                       | [°C]     | 0...+50                                                |                   |