

|                            | <b>GLO 100</b>                                |
|----------------------------|-----------------------------------------------|
| Input frequency range      | 10.7 – 12.75 GHz                              |
| Output frequency range     | 0.95 – 5.45 GHz                               |
| Wavelength output          | 1310 nm                                       |
| Optical output level       | 7 dBm (25°C) ± 2 dBm (full temperature range) |
| Gain max.                  | 72 dB                                         |
| min.                       | 62 dB                                         |
| Current consumption        | < 450 mA                                      |
| Cross polar isolation typ. | 30 dB                                         |
| min.                       | 25 dB                                         |
| Output connectors          |                                               |
| DC input                   | F                                             |
| Optical output             | FC/PC                                         |
| Supply voltage             | 12 V DC                                       |
| Feed mounting              | 40 mm                                         |

### Optical LNB

Optical LNB for the conversion of the received satellite signals to optical digital fiber signals.

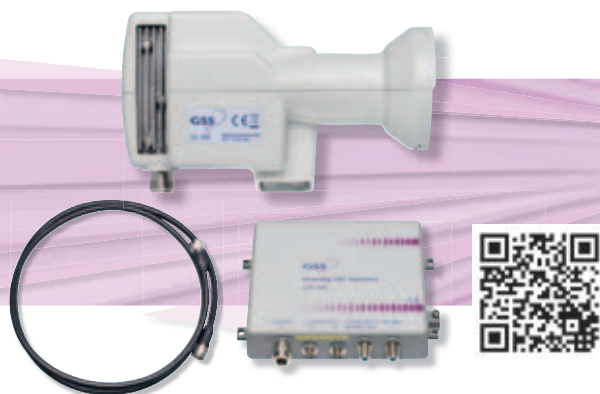
### Optical LNB Set

Optical LNB set consisting of:

- Optical LNB with N connector. The frequencies and the power supply are transmitted with the N cable.
- Optical converter with 2 optical outputs. DVB-T, DAB And FM signals can be fed.
- N cable (length: 2 m)
- Power supply unit 12 V DC/1000 mA

The N cable is also available with a length of 5 m and 10 m.

|                                          | <b>GLOS 100</b>                                   |
|------------------------------------------|---------------------------------------------------|
| <b>LNB</b>                               |                                                   |
| <b>Frequency range</b>                   |                                                   |
| Vertical                                 | 0.95 – 3.0 GHz                                    |
| Horizontal                               | 3.4 – 5.45 GHz                                    |
| Impedance                                | 50 Ω                                              |
| Return-loss                              | 9 dB                                              |
| Feed mounting                            | 40 mm                                             |
| <b>Optical Converter</b>                 |                                                   |
| <b>Frequency range</b>                   |                                                   |
| DVB-T                                    | 470 – 862 MHz                                     |
| DAB                                      | 174 – 240 MHz                                     |
| FM                                       | 88 – 108 MHz                                      |
| Impedance                                | 75 Ω                                              |
| Return-loss                              | 10 dB                                             |
| Input level                              | 67 – 97 dBμV (DAB has to be 12 dB below DVB-T/FM) |
| Recommended input level for DVB-T        | 70 dBμV (for 6 multiplexes)                       |
| Wavelength output                        | 1310 nm ± 20 nm                                   |
| Optical output level                     | 6.5 – 7.5 dBm                                     |
| <b>Power supply</b>                      |                                                   |
| Input voltage                            | 12 – 20 V DC                                      |
| LNB supply                               | 6.2 V ± 0.2 V                                     |
| Terrestrial output voltage               | 11.5 V ± 0.5 V                                    |
| Max. terrestrial current consumption     | < 80 mA                                           |
| Current consumption                      | < 500 mA                                          |
| <b>Connectors</b>                        |                                                   |
| Optical output                           | 2 x FC/PC                                         |
| Satellite input                          | N                                                 |
| Terrestrial input                        | F                                                 |
| DC supply                                | F                                                 |
| Dimensions optical converter (W x H x D) | 140 x 145 x 30 mm                                 |
| Weight converter                         | 300 g                                             |



# OPTICAL SAT IF DISTRIBUTION

## Optical Converter Quattro

The Optical Converter Quattro converts the received optical fiber signal to 4 satellite ranges HH, HL, VH and VL.

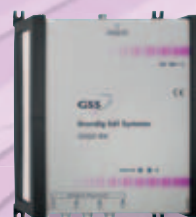
|                                          | SOQ 100                 |
|------------------------------------------|-------------------------|
| Output frequency range                   | 950 – 2150 MHz          |
| Output impedance                         | 75 Ω                    |
| Return-loss                              | 10 dB                   |
| Nominal output level for 30 transponders | 75 dBμV                 |
| Optical wavelength                       | 1100 – 1650 nm          |
| Optical input power                      | -15 – 0 dBm             |
| Input voltage                            | 10 – 20 V               |
| Current consumption max.                 | 210 mA                  |
| Connectors output                        | 5 x F                   |
| power supply                             | 1 x Cinch (via SDP 900) |
| Dimensions (W x H x D)                   | 146 x 185 x 60 mm       |

## Optical Converter Quad

The Optical Converter Quad converts the received optical fiber signal to 4 receiver outputs.

|                                          | SOQD 104                     |
|------------------------------------------|------------------------------|
| Output frequency range                   | 950 – 2150 MHz               |
| Output impedance                         | 75 Ω                         |
| Return-loss                              | 10 dB                        |
| Nominal output level for 30 transponders | 70 dBμV                      |
| Optical wavelength                       | 1100 – 1650 nm               |
| Optical input power                      | -15 – 0 dBm                  |
| Control signals                          |                              |
| Control voltage vertical                 | 11.0 – 14.5 V (13 V nominal) |
| Control signal horizontal                | 15.5 – 19.0 V (18 V nominal) |
| Low / High Band                          | 0 / 22 kHz                   |
| Input voltage                            | 10 – 20 V                    |
| Current consumption max.                 | 220 mA                       |
| Connectors output                        | 4 x F 1 x                    |
| power supply                             | Cinch (via SDP 900)          |
| Dimensions (W x H x D)                   | 146 x 185 x 60 mm            |

The SOQ 100 and SOQD 104 can be optional operated with a power supply unit SDP 900.



## Optical Splitter

for the distribution of one optical signal to several outputs.



|                         | SOD 102        | SOD 103 | SOD 104 | SOD 108 | SOD 116        | SOD 132 |
|-------------------------|----------------|---------|---------|---------|----------------|---------|
| No. of inputs           | 1              | 1       | 1       | 1       | 1              | 1       |
| No. of outputs          | 2              | 3       | 4       | 8       | 16             | 32      |
| Wave lengths            | 1310 – 1550 nm |         |         |         |                |         |
| Insertion loss<br>typ.  | 3.65 dB        | 5.68 dB | 6.87 dB | 10.1 dB | 13.3 dB        | 16.8 dB |
| max.                    | 4.0 dB         | 6.13 dB | 7.32 dB | 10.5 dB | 13.8 dB        | 17.2 dB |
| Connectors input/output | FC / PC        |         |         |         |                |         |
| Dimensions (W x H x D)  | 148 x 115 x 21 |         |         |         | 148 x 176 x 51 |         |

## Optical cable SOFC 001 – SOFC 200

Pre-manufactured optical cable with FC/PC connectors with a length of 1 m – 200 m



## Optical Cable Connector SOA FC – FC

Connector for the connection of two pre-manufactured optical cables.



## Optical Attenuators SOAT 05, 10, 15 and 20

- Attenuators with 5 dB, 10 dB, 15 dB and 20 dB attenuation
- Suitable for an attenuation of the input signal for the optical converters SOQ 100 and SOQD 104



## Optical Measuring Instrument SOPM

- Measurement of optical power
- Measurement of optical attenuation
- Measurement of optical insertion-loss

