Opto Board 1

6 * DOWNLINK

24 * UPLINK

ERM

GBCR 00

IpGBT 00

GBCR 01

IpGBT 01

GBCR 10

IpGBT 10

GBCR 11

IpGBT 11

VTRx XX

BPOL

POWER CONNECTOR

2 * 160MBps

6 * 1,28GBps

2 * 160MBps

6 * 1,28GBps

2 * 160MBps

6 * 1,28GBps

2 * 160MBps

6 * 1,28GBps

10GBps

2,56GBps

160MBps

10GBps

10GBps

10GBps

10GBps

10GBps

10GBps

10GBps
Connectors

**Connector OptoBox to PowerBox:**
SEM – TEM
pitch 0,8mm / 2,9A
SEMS-> SEM-115-02-03.0-H-D-A
TEMS-> TEM-115-02-03.0-H-D-A

**Connector OptoBoard to OptoBox:**
SFM – TFM
pitch 1,27mm / 3,2A
SFM-104-02-L-D-A
TFM-104-01-L-D-RA

**ERM - ERF**
Differential Version?
Power Distribution

1,2V

2,5V

[Image of power distribution diagram for 1.2V and 2.5V]
VTRx Filtering

- Aircoil inductors 1uH to 4.7uH

- Do we need filtering? There is a filter at the BPOL output
To finish OptoBoard 1:

• ERM/ERF in differential version?

• Position of NTC? Package?

• Tests OptoBoard 0
  • Master – Slave tests
  • Test ADC inputs of IpGBT

• Wait for final confirmation GBCR V2

• Finish design OptoBoard1

• Find company for population

• Design BPOL carrier