Utility Communications
SYNUF for FOX515/FOX512
Optical STM-1 aggregate interface

Laser technology for communication equipment changed completely to SFP modules. This approach provides cost effective and flexible solutions. The SYNUF interface of the FOX515/512 is a SFP based STM-1 unit providing all the benefits introduced by the SFP technology to the FOX515 equipment.

The SYNUF unit terminates the VC-4 aggregate traffic signal of its STM-1 front interface and connects the VC-12 and/or VC-3 tributary traffic via the internal SBUS to corresponding tributary interfaces. A mix of VC-12 and VC-3 structures in the VC-4 container of the aggregate signal is possible.

Application
SYNUF is a 1 x STM-1 optical interface for FOX515/512. Using up-to-date SFP technology, SYNUF offers the following advantages:

- Use of standardized SFP (Small Form-factor Pluggable) laser technology
- CWDM features for the FOX515/512 platform
- Integrated long haul solution with extra long lasers
- Reduction of required spare parts, only one type of optical SDH board required
- MSP traffic protection
- SETS hardware protection in 1+1 configuration

Technical data

<table>
<thead>
<tr>
<th>Interface type: STM-1 aggregate with SFP cage</th>
<th>S1.1</th>
<th>L1.1</th>
<th>L1.2</th>
<th>V1.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength</td>
<td>1310 nm</td>
<td>1310 nm</td>
<td>1550 nm</td>
<td>1550 nm (W)</td>
</tr>
<tr>
<td>Minimum launched power</td>
<td>-11±4 dBm</td>
<td>-2,5±2,5 dBm</td>
<td>-2,5±2,5 dBm</td>
<td>5...8 dBm</td>
</tr>
<tr>
<td>Minimum sensitivity</td>
<td>-34 dBm</td>
<td>-35 dBm</td>
<td>-34 dBm</td>
<td>-45 dBm</td>
</tr>
<tr>
<td>Attenuation range</td>
<td>17 dB</td>
<td>28 dB</td>
<td>27 dB</td>
<td>50 dB</td>
</tr>
</tbody>
</table>

For more information please contact:

ABB Switzerland Ltd.
Power Systems
Brown Boveri Strasse 6
5400 Baden, Switzerland
Phone: +41 58 589 37 35
or +41 844 845 845 (Call Center)
Fax: +41 58 585 16 88
E-Mail: utilitycommunications@ch.abb.com

www.abb.com/utilitycommunications