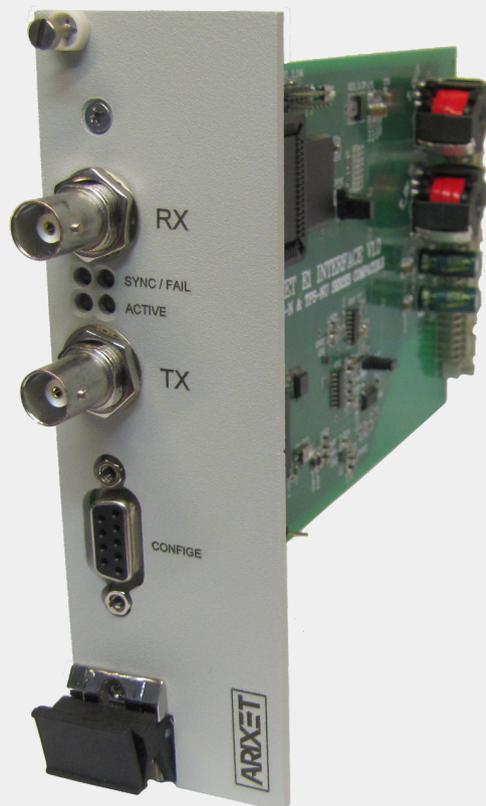


## E1 Interface card

SELTA TPS-N compatible

### FEATURES

- X E1 Interface card developed for SELTA teleprotection utilities communication networks**
- X Based on international ITU-T G.703 and analog 4 wire communication standards**
- X Connect to E1 route of SDH, PDH and optical or radio communication networks**
- X Designed for continuous uninterrupted operation**
- X Easy installation with minimum shelf change**
- X Available in internal card, fully compatible with SELTA TPS-N shelf dimensions**



# DESCRIPTION



SELTA teleprotection system TPS-N, only could connect to SELTA power line carrier (PLC) and 4 wire channels in telecommunication platforms. ARIXET SEC102 is an E1 interface card which expands this TPS access. It has highly developed the usage and ability of TPS by making E1 connection routes to SDH, PDH and optical or radio communication networks.

The interface card supports international standards ITU-T G.703 (E1) with 2.048 Mb/s  $\pm$  50ppm bit rate and HDB3 line code.

# APPLICATION

Regarding that in most stations, E1 link is available recently, with ARIXET SEC102 it's possible to eliminate PLC devices to reduce telecom problems such as: inaccessibility of blank frequencies, Inappropriate outdoor equipment and difficult maintenance.

Setting up an E1 link for TPS could Significantly reduce costs and further increase the performance confidence of SELTA teleprotection systems.

# MOUNTING TYPES

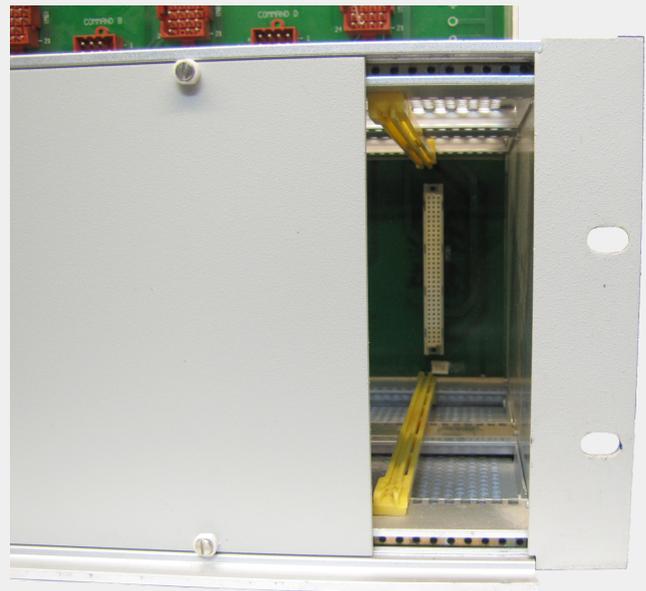
ARIXET SEC102 is available as rack mount internal card type.

This product is prepared with a full metal front panel , industrial featured with anti shock and easy ejection handle.

Internal card ARIXET SEC102 is compatible with SELTA TPS-N shelf that needs to instal 2\*32 European standard DIN female sockets in appropriate position.

The last blank rail space of the shelf, supposed to prepare for card installation, before use.

Mention that the bank space cover of the shelf front panel, needs to be replaced with a specific sized one.



<b>Operations</b>	<b>Type</b>	Transmit LF 0-4 KHz commands on E1 ITU-T G.703
	<b>Media</b>	E1 route of SDH, PDH and optical or radio communication networks

<b>Interfaces</b>	<b>E1/G703</b>	<ul style="list-style-type: none"> <li>- 2.048 Mb/s <math>\pm</math> 50ppm Bit rate</li> <li>- HDB3 Line Code</li> <li>- 75 <math>\Omega</math> / 120 <math>\Omega</math> Impedance</li> <li>- Conform to ITU-T G703 Return Loss</li> <li>- Conform to ITU-T G823 Jitter</li> </ul>
	<b>4 Wire</b>	<ul style="list-style-type: none"> <li>- balanced/unbalanced input type</li> <li>- 0-4 KHz Reception band</li> <li>- -10 dBm (-30 ... +1 dBm, step: 1 dB) Guard nominal level</li> <li>- 0 dBm (-20...+11 dBm, step: 1 dB) Command nominal level</li> <li>- 25 dB Reception dynamic</li> <li>- 600 <math>\Omega</math> or high impedance</li> <li>- &gt; 20 dB (if impedance 600 <math>\Omega</math>) Return loss</li> <li>- &gt; 46 dB (if balanced) Symmetry loss</li> </ul>
	<b>Power supply</b>	$\pm$ 5 VDC supply from SELTA TPS shelf backplane

<b>General</b>	<b>LED indication</b>	PWR, ACTIVATION, SYNC, FAIL
	<b>Power supply</b>	$\pm$ 5 VDC
	<b>Isolation</b>	Transformer up to 1500V
	<b>Immunity to noise</b>	<ul style="list-style-type: none"> <li>- Peak pulse noise: 100V Peak</li> <li>- Effective interference at 50 Hz: 80V rms</li> </ul>
	<b>Temperature</b>	Operation and storage: -10° to +50 °C
	<b>Dimensions</b>	- Internal card compatible with SELTA 19" rack mount, EUROCARD PCB, 210x115mm (TPS-N model Compatible)