

## SRX650 Services Gateway Dual T1/E1 GPIM Overview

A Gigabit-Backplane Pluggable Interface Module (GPIM) is a network interface card (NIC) that installs in the front slots of the services gateway to provide physical connections to a LAN or a WAN. The GPIM receives incoming packets from a network and transmits outgoing packets to a network.

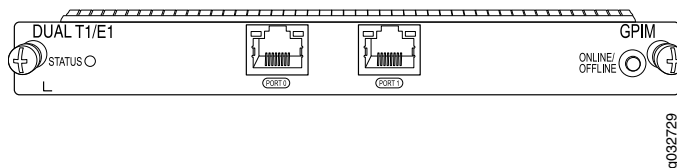
The Dual T1/E1 GPIM provides the physical connection to T1 or E1 network media types and also performs T1 or E1 framing and line-speed signaling.



**CAUTION:** GPIMs are not Online Insertion and Removal (OIR) capable. You must power off the services gateway before removing or inserting a GPIM.

The Dual T1/E1 GPIM can be plugged into any GPIM slot on the services gateway. Figure 1 shows the Dual T1/E1 GPIM.

**Figure 1: Dual T1/E1 GPIM**



The Dual T1/E1 GPIM provides the following common key features for both T1 and E1 modes:

- HDLC operating mode supports 56 Kbps and 64 Kbps
- Independent internal and external clocking option
- Alarm reporting with 24-hour history
- MTU supports 9K bytes

The Dual T1/E1 GPIM provides the features specific to T1 or E1 modes listed in Table 1.

**Table 1: Dual T1/E1 GPIM Specific T1 or E1 Features**

Description	T1 Mode	E1 Mode
Operation modes	<ul style="list-style-type: none"> <li>■ Framed clear channel</li> <li>■ Fractional operation mode supports flexible configuration for time slots (numbered 1-24)</li> </ul>	<ul style="list-style-type: none"> <li>■ Framed clear channel (64 Kbps)</li> <li>■ Unframed clear channel</li> <li>■ Fractional operation mode supports flexible configuration for time slots (numbered 0-31)</li> </ul>

**Table 1: Dual T1/E1 GPIM Specific T1 or E1 Features** (continued)

Description	T1 Mode	E1 Mode
Framing	■ Superframe (D4/SF)	■ G704
	■ Extended Superframe (ESF)	■ G704 with no CRC4 ■ G703 Unframed
Line encoding	■ B8ZS	■ HDB3
	■ AMI	

- Related Topics**
- SRX650 Services Gateway Front Panel
  - SRX650 Services Gateway Dual T1/E1 GPIM Specifications
  - Installing a GPIM on the SRX650 Services Gateway
  - Configuring the SRX650 Services Gateway Dual T1/E1 GPIM