

Expander Interface (T8311)



Figure 5-6:
Expander
Interface
Module

The expander interface module, shown in Figure 5-6, resides in the controller chassis and provides the interface between the controller chassis and up to seven expander chassis. The module is fault tolerant with HIFT TMR architecture. Comprehensive diagnostics, monitoring and testing provide rapid fault identification. A standby module configuration is supported, allowing automatic and manual repair strategies.

The expander interface modules may reside in any of the single width slots within the controller chassis. The modules are installed in pairs with the left-hand module occupying an *odd* numbered slot.

When both modules within a pair are installed, the TMR processor determines which module should be active. The active operation defaults to the left-most module when both modules are healthy.

The expander interface module derives its internal voltages from dual redundant +24V dc power supplied via the module connector from the controller chassis backplane.

The expander interface module status LED states and their meanings are:

LED	Indication
Healthy	Three LEDs, one for each of the three slices, indicating the overall health of each slice. Steady green - a healthy slice. Flashing red - a fault in the corresponding slice.
Active	Steady green when the module is in the Active mode.
Standby	Steady green when the module is in the Standby mode.

Table 5-2: Expander Interface Module LED Indications