

DR 24: OC-192 Equipment Capacity

For the purposes of the FLEC engineering model, the SONET transport electronics assumed for this network has a number of slots that are used for common cards (e.g. Central Processing Unit, Data Communications Channel Unit, Alarm Interface Unit, Synchronization Units, and STS Switch Fabric Units). In addition, a total of twenty (20) multipurpose slots are available for circuit interface cards. The VT1.5 Switch Fabric units (quantity 2 for redundancy) must reside in the multipurpose slots. These VT1.5 Switch Fabric Units each consume a single slot; therefore, a total of two (2) slots are utilized by these cards. In addition, the OC-192 ring interface cards each require two (2) slots. Therefore, a total of four (4) slots are consumed at each site for the OC-192 circuit interface cards. The combination of the OC-192 slot requirements and the VT1.5 Switch Fabric slot requirements leaves fourteen (14) slots available for tributary interface cards. The following is a diagram of a sample SONET terminal. This diagram depicts the slot availability for the multi-purpose slots, but it does not show the common card slots.

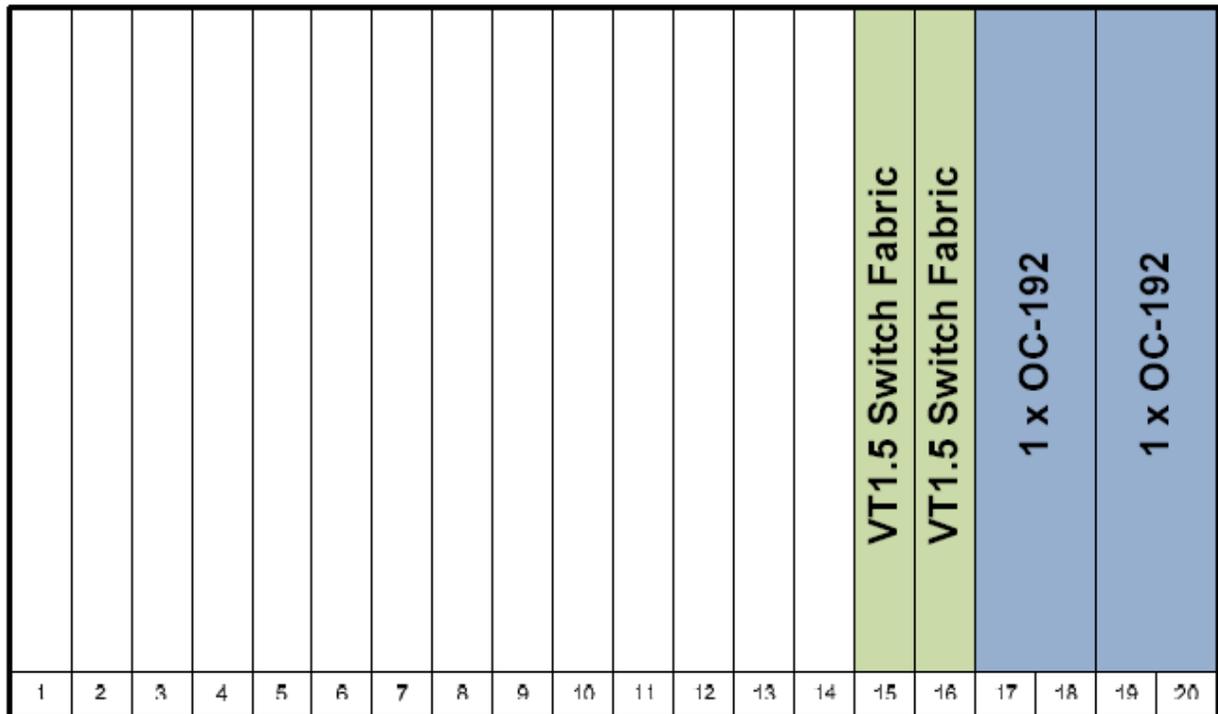


Figure 1 – Sample SONET Terminal

The SONET transport network equipment assumed in the FLEC engineering model can be equipped with DS-1 circuit interface cards. Each DS-1 circuit interface card requires a single card slot and includes 28 DS-1 interface ports. In addition, it should be noted that these circuit cards function in a 1:1 protection mode. In other words, for each “working” circuit interface card, there is a corresponding “protect” circuit interface card. This provides the appropriate hardware redundancy for DS-1 interface cards. The

