

DSX-80/160 System Load Factor

The combination of lines and extensions you can connect to your DSX system may be limited by the System Load Factor. Use the *DSX-80/160 System Load Factor Worksheet* on the next page to verify your system's configuration. When entering data on the worksheet, for each installed card make entries for each *Load Type*. There are two *Load Types* to consider: 5 VDC and 40 VDC.

To check your system configuration:

1. Indicate the quantity for each card installed in the **Qty** column.
 - The number of keysets, single line sets, and DSS Consoles does not affect the load factor.
2. For each item and for each Load Type, multiply the **Qty** times the **Load** and enter the value in the **Total** column.
 - For example, two 16ESIU Cards have a load of 16 for 5 VDC and 40 for 40 VDC.
3. Add up the entries in each **Total** column and enter the values in **Item 1: Load Type Totals**.
4. Review **Item 2: Power Supply Capacity** and determine the capacity of the power supplies installed in your system.
5. Compare the capacities in **Item 2** to your entries in **Item 1**. **Item 1** must always be equal to or less than the entry in **Item 2**.

Important
Do not operate your system if the total for either Load Type exceeds the Power Supply Capacity of your installation.

System Configuration

DSX-80/160 System Load Factor Worksheet					
Description	Qty	Load Type			
		5 VDC		40 VDC	
		Load	Total	Load	Total
CPU Card	1	12	12	0	0
16ESIU Card		8		20	
8SLIU Card		5		8	
16SLIU Card		10		16	
8COIU Card		3		0	
16COIU Card		6		0	
T1/E1/PRI Card		8		0	
Item 1: Load Type Totals (Cannot exceed Item 2: Power Supply Capacity.)					
Item 2: Power Supply Capacity					
If you have <u>one</u> power supply installed, the capacity is:		5 VDC = 40	40 VDC = 48		
If you have <u>two</u> power supplies installed, the capacity is:		5 VDC = 80	40 VDC = 80		
If you have <u>three</u> power supplies installed, the capacity is:		5 VDC = 120	40 VDC = 120		
Notes:					
<ul style="list-style-type: none"> • DSX-80 can only have 1 power supply. • DSX-160 can have up to 3 power supplies. You <i>cannot</i> have more than two 16ESIU Cards per power supply, regardless of System Load Factor calculations. • Exceeding the allowed Load Type Total (Item 1) will cause the system's power supplies to automatically shut down and/or cause erratic system operation. • The total of all station, line, DSS Console, and voice mail ports cannot exceed 160. 					