3.3 DISK AND TAPE STORAGE DEVICES AND CONTROLLERS

This section describes the disk drives, tape drives, and controller modules supported by the MicroVAX II 630QE.

3.3.1 RQDX3 Disk Controller

Order: RQDX3-AA controller kit

An RQDX3-AA controller kit includes the following items.

- RQDX3 controller module
- 17-00285-02 50-pin signal cable

Module number: M7555

The RQDX3 controller is a dual-height module used to interface fixed disk drives and diskette drives to the Q22-Bus. The RQDX3 is an intelligent controller with onboard microprocessors. Data is transferred using DMA. Programs in the host system communicate with the controller and drives using the mass storage control protocol (MSCP).

The RQDX3 can control a maximum of four drives. Each fixed disk counts as one drive. Each RX50 counts as two drives.

Figure 3-22 shows the jumper and LED locations for the RQDX3 controller.

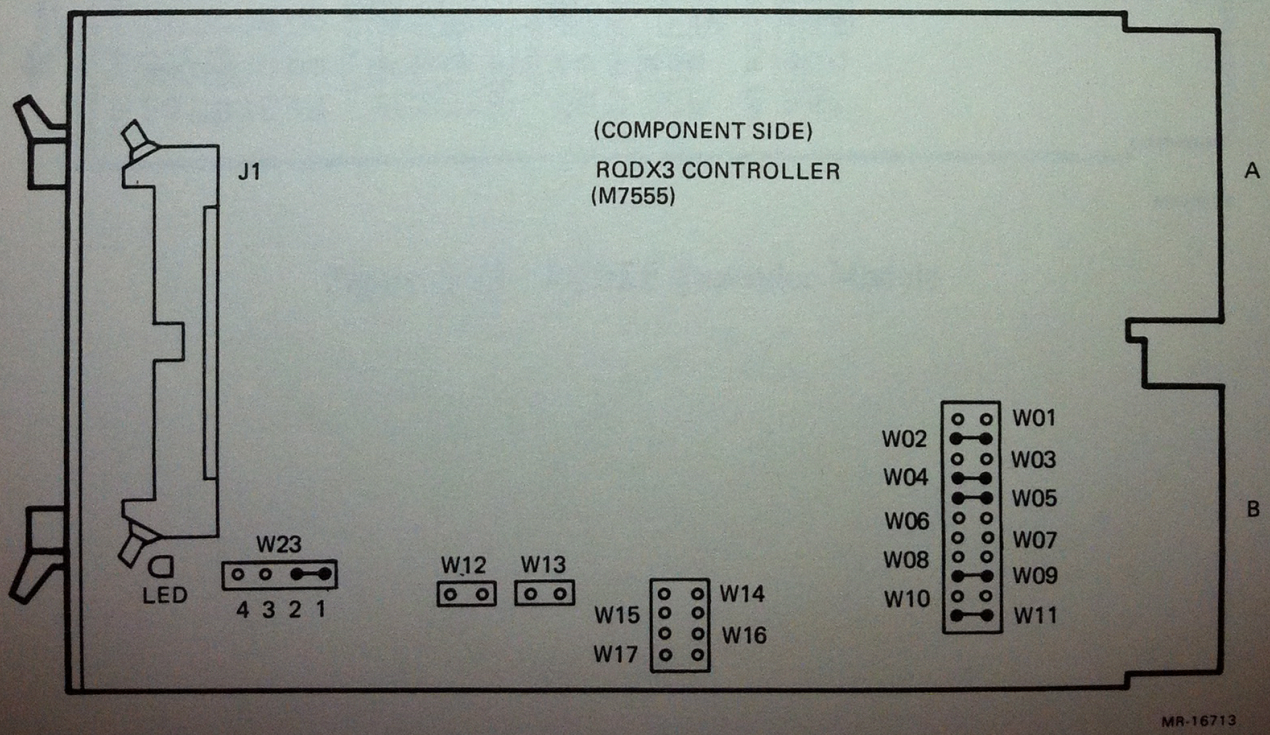

Figure 3-22 RQDX3 Module Layout

The CSR address of the first RQDX3 is fixed. If a second RQDX3 is installed, its CSR address floats (Table 4-3). Table 3-19 lists the factory setting and common settings for a second RQDX3.

Table 3-19 RQDX3 CSR Address

CSR Address	A12 W11	A11	A10	A9	A8	A7	A6	A5	A4	A3	A2 ← W1 ←	Address Bits (Jumpers)
17772150	1	0	1	0	0	0	1	1	0	1	0	(factory)
Possible Settings for a Second RQDX3												
17760334	0	0	0	0	0	1	1	0	1	1	1	
17760354	0	0	0	0	0	1	1	1	0	1	1	
17760374	0	0	0	0	0	1	1	1	1	1	1	

1 = installed, 0 = removed

The interrupt vector for the RQDX3 is set under program control. The first RQDX3 is assigned a fixed interrupt vector of 154. If a second RQDX3 is installed, its interrupt vector floats.

Logical unit number (LUN) jumpers on the RQDX3 are not used in MicroVAX systems.

For more information, see the *RQDX3 Controller Module User's Guide* (EK-RQDX3-UG).