

Software Product Description

PRODUCT NAME: DT07-11M/M-PLUS, Version 2.1

SPD 14.36.03

DESCRIPTION

DT07-11M/M-PLUS software allows the RSX-11M or RSX-11M-PLUS operating system user to electronically connect a section of switchable UNIBUS, together with all attached peripherals, to the user's system. When the DT07 is connected, the switched peripherals operate as if they were permanently attached to that system. When the DT07 is disconnected, the switched peripherals are removed and are then available for connection to another system. Up to four systems can share a single switched UNIBUS via the DT07.

DT07-11M/M-PLUS consists of two separate parts: a Driver and a Bus Switch Manager. The Driver maintains control of the DT07, monitors its activities, supports the connect and disconnect functions, and handles associated system-level housekeeping tasks for each processor. The Bus Switch Manager provides a link between the user and the DT07 Driver. The Bus Switch Manager also maintains information regarding users that are currently using the switched UNIBUS and the status of operations performed in controlling the switched UNIBUS. In addition to the connect and disconnect functions, DT07-11M/M-PLUS supports the following:

Driver Features

- Automatic failover of switched peripherals to a backup CPU upon failure of the currently connected CPU
- Automatic disconnect of the DT07 upon CPU switched UNIBUS power failure
- Update of the on-line/off-line status of all switched peripheral drivers after each DT07 switching operation in both manual and programmable modes
- Console and error log reporting of all switching activities and DT07 status changes
- A session control capability to facilitate resource sharing
- Security protection against unauthorized switching via DT07 software assignable privilege levels

Hardware Restrictions

Due to the nature of a UNIBUS switch, the following restrictions concerning the use of the DT07 should be noted:

- The DT07 includes the function of a bus repeater which may reduce data rates of some devices. In general, over-runnable devices with a burst data rate requirement of greater than 250KHz (4uS per word) should not be used on the DT07.
- The DT07 is intended to function in programmable mode. Manual switching while the operating system is running is not supported.

MINIMUM HARDWARE REQUIRED

Any valid UNIBUS PDP-11 system configuration that includes a DT07 UNIBUS switch.

Memory Requirements for RSX-11M Systems:

Required for Installation: 545 blocks (279K bytes) of disk storage are required for creation of the BSM and SWI tasks.

Required for Execution: 13312 decimal bytes of memory are required for the BSM task and 16832 decimal bytes of memory are required for the SWI task.

Memory Requirements for RSX-11M-PLUS Systems:

Required for Installation: 555 blocks (284.16K bytes) of disk storage are required for creation of the BSM and SWI tasks.

Memory Required for Execution: 16448 decimal bytes of memory are required for the BSM task and 18432 decimal bytes of memory are required for the SWI task.

These counts refer to the disk space required on the system disk. The sizes are approximate; actual sizes may vary depending on the user's system environment, configurations, and software options selected.

GROWTH CONSIDERATIONS

None

OPTIONAL HARDWARE

- Up to eight separate DT07s on a single system

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software

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- Up to four ports of the same DT07

PREREQUISITE SOFTWARE

RSX-11M or RSX-11M-PLUS operating system

Refer to the RSX-11M and RSX-11M-PLUS Optional Software Cross Reference Tables (SPD 20.98.xx and SPD 20.99.xx) for the required versions.

OPTIONAL SOFTWARE

None

SOFTWARE WARRANTY

Warranty for this software product is provided by DIGITAL with the purchase of a license for the product as defined in the Software Warranty Addendum of this SPD.

INSTALLATION

DT07-11M/M-PLUS is a software product engineered to be installed by the customer.

ORDERING INFORMATION

Single-Use licensed software is furnished under the licensing provisions of DIGITAL's Standard Terms and

Conditions which provide, in part, that the software and any part thereof may be used on only the single CPU on which the software is first installed, and may be copied, in whole or in part (with the proper inclusion of DIGITAL's copyright notice and any proprietary notices on the software) for use on that same CPU.

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Additional Services

None

SOFTWARE OPTIONS CHART

The distribution Media Codes used in the Software Options Chart are described below. You specify the desired Media Code at the end of the Order Number, e.g., QJS26-XH = sources on RL02 Disk Cartridge.

- D = 9-track 800 BPI Magtape (NRZI)
- H = RL02 Disk Cartridge
- M = 9-track 1600 BPI Magtape (PE)

Z = No hardware dependency

OPTIONS	ORDER NUMBER RSX-11M RSX-11M-PLUS SYSTEMS
Source License, sources, documentation, warranty	QJS26-XD QJS26-XH QJS26-XM
Single-Use License Option	QJS26-DZ
Documentation-Only Option	QJS26-GZ
Sources, documentation	QJS26-ND QJS26-NH QJS26-NM
Software Revision Right-to-Copy Option	QJS26-NZ