

# Software Product Description

PRODUCT NAME: DRX11-C/VMS Driver, Version 6.0

SPD 26.64.02

## DESCRIPTION

The DRX11-C/VMS device driver provides the user with the capability to access the DRE11-C/DRQ11-C double buffer DMA interfaces (16-bit parallel). Programs written in MACRO-32, VAX-11 FORTRAN or VAX-11 PASCAL can communicate with the hardware interface under the VMS Operating Systems through the \$QIO System Service.

This version is available in Europe only.

### Features

- Supports single word transfers
- Supports single block transfers
- Supports multiple block transfers - The user establishes two buffers in main memory and the interface switches automatically between them. The contents of one buffer are processed while the other buffer is being read/written. Thus data can be transferred continuously in a cyclic manner.
- Supports large buffer block transfers - The buffer size is restricted only by the amount of free physical memory available.
- Supports the use of direct or buffered datapath
- Supports burst mode
- Supports direction change
- Supports reading and writing of status and function bits
- Supports the interface reset
- Supports special interrupt processing - If connected to attention AST, user defined interrupts are handled by executing user written routines.
- Supports QIO Interface - Provides the functionality described above through direct access to the driver with the VMS System Service. The user therefore must be familiar with the QIO calling procedures.

Driver exerciser and test programs are provided to verify the correct installation and functionality of the DRX11-C/VMS driver.

A programming example is provided for a computer link between:

- (Micro)VAX/VAX
- (Micro)VAX/PDP (with DRX11-C/RSX driver, SPD 12.72.xx).

## HARDWARE REQUIREMENTS

VAX, MicroVAX or VAXstation configuration as specified in the System Support Addendum (SSA 26.64.02-x)

- One DRE11-C or DRQ11-C interface
- Hardware capable of reading one of the distribution media upon which this product is offered.

## SOFTWARE REQUIREMENTS\*

- VMS Operating System

## OPTIONAL SOFTWARE\*

- VAX-11 FORTRAN (for demonstration programs)
  - VAX-11 PASCAL (for demonstration programs)
  - ADF01/VMS Subroutine Library (with ADF01-A optional hardware)
  - AAF01/VMS Subroutine Library (with AAF01-B optional hardware)
- \* Refer to the System Support Addendum for availability and required versions of the Prerequisite/Optional Software (SSA 26.64.02-x).

## ORDERING INFORMATION

Software Licenses: QL-S36A\*-\*\*

Software Media: QA-S36A\*-\*\*

Software Documentation: QA-S36AA-GZ

\* Denotes variant fields. For additional information on available licenses, services and media refer to the appropriate price book.

## 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.

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**SOFTWARE LICENSING**

This software is furnished under the licensing provisions of DIGITAL's Standard Terms and Conditions. For more information about DIGITAL's licensing terms and policies, contact your local DIGITAL office.

**LICENSE MANAGEMENT FACILITY SUPPORT**

This layered product supports the VMS License Management Facility. License units for this product are allocated on a CPU-capacity basis.

For more information on the License Management Facility, refer to the VMS Operating System Software Product Description (SPD 25.01.xx) or the VMS Operating System documentation set.

For more information about DIGITAL's licensing terms and policies, contact your local DIGITAL office.

**SOFTWARE PRODUCT SERVICES**

A variety of service options are available from DIGITAL. For more information contact your local DIGITAL office.

# System Support Addendum

PRODUCT NAME: DRX11-C/VMS Driver, Version 6.0

SSA 26.64.02-A

## HARDWARE REQUIREMENTS

### *Processor support*

VAX: VAX 8600, VAX 8650

VAX-11/730, VAX-11/750, VAX-11/780,  
VAX-11/785

MicroVAX: MicroVAX II

VAXstation: VAXstation 3200

### *Processors not supported*

VAX: VAX 6210, VAX 6220, VAX 6230, VAX 6240,  
VAX 8200, VAX 8250, VAX 8300, VAX 8350,  
VAX 8500, VAX 8530, VAX 8550, VAX 8700,  
VAX 8800, VAX 8810, VAX 8820, VAX 8830,  
VAX 8840, VAX 8842, VAX 8974, VAX 8978

VAX-11/725, VAX-11/782

MicroVAX: MicroVAX I, MicroVAX 2000, MicroVAX  
3500/3600

VAXstation: VAXstation I, VAXstation II, VAXstation  
2000, VAXstation 3500 VAXstation 8000

VAXserver: VAXserver 3500/3600/3602

### *Other hardware required*

- One DRE11-C or DRQ11-C interface
- At least 6K bytes nonpaged pool memory for the DRX11-C/VMS driver.

### *Block Space Requirements (Block Cluster Size = 1)*

Disk space required for installation: 850 blocks  
(425K bytes)

Disk space required for use (permanent): 450 blocks  
(225K bytes)

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, configuration, and software options selected.

## OPTIONAL HARDWARE

- Up to 26 DRE11-C or DRQ11-C interfaces.
- ADF01-B interface
- AAF01-A interface

## CLUSTER ENVIRONMENT

This layered product is fully supported when installed on any valid and licensed VAXcluster\* configuration without restrictions. The HARDWARE REQUIREMENTS sections of this product's Software Product Description and System Support Addendum detail any special hardware required by this product.

\* V5.x VAXcluster configurations are fully described in the VAXcluster Software Product Description (29.78.xx) and include CI, Ethernet and Mixed Interconnect configurations.

## SOFTWARE REQUIREMENTS

- VMS Operating System, V5.0

### *VMS Tailoring*

The following VMS classes are required for full functionality of this layered product:

- VMS Required Saveset
- Programming Support
- System Programming Support

## OPTIONAL SOFTWARE

- VAX-11 FORTRAN (for demonstration programs), V5.0
- VAX-11 PASCAL (for demonstration programs), V4.0
- ADF01/VMS Subroutine Library (with ADF01-A optional hardware), V4.0
- AAF01/VMS Subroutine Library (with AAF01-B optional hardware), V2.0

## GROWTH CONSIDERATIONS

The minimum hardware/software requirements for any future version of this product may be different from the minimum requirements for the current version.

## DISTRIBUTION MEDIA

Disk: RX50 Floppy Diskette, RX33 Floppy Diskette

Tape: 9-track 1600 BPI Magtape (PE), TK50 Tape Cartridge

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Software Media: QA-S36A\*-\*\*

Software Documentation: QA-S36AA-GZ

\* Denotes variant fields. For additional information on available licenses, services and media refer to the appropriate price book.

The above information is valid at time of release. Please contact your local DIGITAL office for the most up-to-date information.