



# Software Product Description

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**PRODUCT NAME: RSX-11D/3271 Protocol Emulator (PE), Version 1**

**SPD 10.87.0**

## **DESCRIPTION:**

The RSX-11D/3271 Protocol Emulator (PE) permits applications tasks running under RSX-11D to communicate interactively with tasks in an IBM 360 or 370 system. It is a tool to aid in implementing complex applications requiring on-line information entry and retrieval, file transfer and inter-task communications capabilities between IBM 360 or 370 and PDP-11 RSX-11D systems. The user task in RSX-11D presents itself to the IBM system as an IBM 3277 display unit attached to an IBM 3271 control unit operating in slave mode.

The emulator operates as a device driver under RSX-11D, maintaining the synchronous line discipline on one side and interfacing with the user tasks on the other. The PE module supports up to six synchronous lines, each of which can be viewed by the 360 or 370 as a 3271 controller. Each pseudo controller supports, at most, 32 RSX-11D user tasks. The maximum number of supported lines and user tasks is a function of application requirements and buffer constraints.

*Line Discipline* — The communications discipline used by the 3271 PE is the 3271 subset of IBM's BSC (Binary Synchronous Communications) protocol using EBCDIC code. Specifically, this subset of BSC supports operation of full or half-duplex leased lines in either point-to-point or multipoint configurations at transmission speeds up to 9600 bits per second. The protocol does not support switched facilities using contention line control.

The PE does not provide transparent BSC capability, but it can share a multidrop line with terminals functioning in transparent or non-transparent mode.

*User Task Interface* — Applications tasks access the emulator via QIO MACRO calls.

The emulator does not interpret or insert 3270 orders for formatted screen emulation; therefore, the applications task is responsible for formatting and interpreting the data portion of the messages being sent to and received from the 360 or 370 system

## **MINIMUM HARDWARE REQUIRED:**

A minimum RSX-11D configuration with:

- an additional 8K words of memory
- a synchronous interface: either a DV11, a DUP11 with KG11, or a DU11 with KG11

- Bell 201 or 208 modems or equivalent. Operation with other modems is not precluded, but warranted support does not apply in these cases.
- A master host 360/370 configuration which must include a 2701 Data Adapter, a 2703 Transmission Control Unit, a 3704 or 3705 Transmission Controller, or a System/370 Model 135 Integrated Communications Adapter.

## **OPTIONAL HARDWARE:**

- 1K words additional memory for each additional synchronous line after one.

## **PREREQUISITE SOFTWARE:**

RSX-11D operating system, Version 6.1 or 6.2.

A master/host system running one of the following operating systems and applications task interfaces:

- OS, CICS/OS Standard Version 2
- OS/VS1 or OS/VS2 or DOS/VS, CICS/VS

Operation with other operating systems and task interfaces is not precluded, but warranted support does not apply in those cases.

## **OPTIONAL SOFTWARE:**

None

## **SUPPORT CATEGORY:**

A — Software Support will be provided as listed in the Software Support Categories Addendum to this SPD.

## **UPDATE POLICY:**

Software Updates, if any, released by DIGITAL during the one (1) year period following installation, will be provided to the customer for a media charge. After the first year, updates, if any, will be made according to then prevailing DIGITAL policies.

## **ORDERING INFORMATION:**

This software is furnished under a license for use on a single CPU and can be copied and modified (with inclusion of DIGITAL's copyright notice) only for use on such CPU, except as may otherwise be provided in writing by DIGITAL.

Options with no support services are only available after the purchase of one full-support license. When a software license is ordered without support services, the category of support applicable to such software is Category C.

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Source and/or listing options are only available after the purchase of at least one binary license and after a source license agreement is in effect.

The following key (D, E, F, R, T, Z) represents the distribution media for the product and must be specified at the end of the "Q" number, e.g., QPD72-AE = binaries on RK05 disk.

D = 9-track Magnetic Tape  
 E = RK05 Disk  
 F = 7-track Magnetic Tape  
 R = Microfiche  
 T = RK06 Disk  
 Z = No hardware dependency

#### Standard Options

QPD72 -A— Single-use license, binaries, documentation, support services (media: D, E, F, T)  
 QPD72 -C— Single-use license, binaries, documentation, no support services (media: D, E, F, T)  
 QPD72 -D— Single-use license only (media: Z)

#### Source/Listing Options

QPD72 -E— All sources (media: D, E, F, T)  
 QPD72 -F— Listings (media: R)

#### CUSTOMER RESPONSIBILITIES

BEFORE installation of the SOFTWARE, the customer must:

1. Obtain, install, and demonstrate operational to DIGITAL's satisfaction any modems and other equipment and facilities necessary to interface to DIGITAL's communications line interfaces and terminals.
2. Install or have installed all hardware, including terminals, to be used on the system.
3. Generate any and all IBM systems that will be communicating with the 3271 PE to DIGITAL's satisfaction.
4. Make available to DIGITAL personnel all hardware, including communications facilities and terminals, to be used during installation and acceptance testing for a reasonable period of time each day, as mutually agreed upon by DIGITAL and customer, until acceptance criteria are satisfied.
5. Provide access privileges and machine time on any and all IBM systems on which the installation is to be performed.

6. Provide an IBM application program that performs a write followed by a read to the 3271 PE.
7. Edit the PDP-11 test program to include the correct message to be sent to the IBM system (or supply DIGITAL personnel with this message).

Delays caused by any failure to meet these responsibilities will be charged at the then prevailing rate for time and materials.

#### ADDITIONAL SERVICES:

None

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