

HP 250 HP 260



Synchronous Data Communications

DSN/INP, DSN/DS, DSN/RJE

45122D Intelligent Network Processor (DSN/INP)
45124A/R Distributed Systems (DSN/DS)
45123A/R Remote Job Entry (DSN/RJE)



DSN/INP Description 45122D

The Intelligent Network Processor (DSN/INP) allows HP 250 and HP 260 computers to be linked to other computers using binary synchronous protocol. The INP performs character handling and buffer storage, freeing the central processor for other tasks. It uses a Hewlett-Packard high-speed silicon-on-sapphire (SOS) microprocessor and contains 32 Kbytes of RAM and 4 Kbytes of control ROM. An INP requires a single I/O slot.

DSN/INP Features

- Data rates up to 19,200 bits/second
- Offloads data communication handling from SPU
- Character handling and buffer storage capability
- Compatible with HP and Bell modems in both full duplex and half duplex mode
- Self-test capability with comprehensive diagnostic program for troubleshooting
- Compatible with IBM Binary Synchronous Communications Protocol (BISYNC)
- EIA RS-232-C and CCITT V. 24, V. 28 compatibility
- Bell 201C, 208A, 208B, 209A modem compatibility
- Bell 801C-LV. 2 auto-call unit compatibility
- Supports auto-answer and auto-dial capability
- Up to 2 Kbytes data per buffer

Specifications

Documentation

DSN/INP Reference Manual, part number 45122-90010, comes with 45122D.

Hardware Required

- Any HP 250 or HP 260 Small Business Computer System with 64 Kbyte user memory partition
- One HP Intelligent Network Processor 45122D per system
- RS-232-C direct connect or modem connect with cables 45115A and 45116A
- EIA RS-232-C interface or CCITT V. 24/V.28
- Auto-answer interface EIA RS-366, CCITT V. 25

Software Required

- Current HP 250 or HP 260 Operating System*
- DSN/DS software for connection to an HP 3000 computer or DSN/RJE software for connection to an IBM 2780, 3780 or emulator. The CS250 DROM must be configured.

* If you do not have the most current Operating System, please contact your OEM or HP Sales Representative for information on upgrading your system.

DSN/DS Description 45124A/R

Distributed Systems (DSN/DS) is a program which provides a friendly interactive link between HP 250 or HP 260 systems and HP 3000 systems. Using the DSN/INP and BISYNC protocol, DSN/DS not only allows access to the HP 3000 as a virtual terminal, but offers the additional capability of transferring data and program files. This access is achieved by simulating a subset of Distributed Systems/3000 capabilities which communicate over a direct connection or through a modem. The HP 250 or HP 260, however, cannot emulate block mode from the HP 3000. Product 45124R gives the current owner of DSN/DS (45124A) the right to copy the software.

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DSN/DS Features

- Access to the HP 3000 distributed system networks
- HP 3000 "virtual" terminal capabilities:
 - log-on and log-off
 - remote command execution
 - remote program execution
 - peripheral access
- Bi-directional data file transfers between HP 250 and HP 3000 systems or HP 260 and HP 3000 systems
- Back-up or retrieval of HP 250 and HP 260 data and program files to and from an HP 3000
- Provides a software distribution channel
- High-speed communications (up to 19,200 bits/second)
- Direct connect or modem
- HP 250 and HP 260 local command execution under DSN/DS
- Auto-dial capabilities

Specifications

Documentation

DSN/DS User's Manual, part number 45124-90000, comes with both 45124A and 45124R.

Hardware Required

- Any HP 250 or HP 260 Small Business Computer System with 64 Kbyte user memory partition
- An installed Intelligent Network Processor (INP), part number 45122D
- A communications connection to an HP 3000 with an INP, SSLC, or HCI hardware interface

Software Required

- Current HP 250 or HP 260 Operating System*
- DSN/DS software (45124A or 45124R)
- CS250 DR0M and communications connection need to be configured

* If you do not have the most current Operating System, please contact your OEM or HP Sales Representative for information on upgrading your system.

DSN/RJE Description 45123A/R

An INP can be used with the DSN/RJE communications subsystems to emulate an IBM 2780/3780 batch terminal. The emulator allows a variety of input/output devices, including disc and keyboard. Punched card I/O and multi-leaving remote job entry are not supported. The remote processor can be any computer which supports or emulates a 2780 or 3780. Communication with another 2780/3780 emulator is limited to file transfers only. Product 45123R gives the current owner of DSN/RJE (45123A) the right to copy the software.

DSN/RJE Features

- Remote job entry using BISYNC protocol
- Auto-answer (3780 only)
- Space compression (3780) and space truncation
- Vertical carriage control and horizontal tabbing
- Printer widths up to 132 characters
- Choice of ASCII or EBCDIC code with automatic conversion
- Choice of transparent or non-transparent modes
- Output device selection
- Default configuration file for communication parameters (modem attributes, time-out values, telephone numbers, buffer sizes, etc.)
- Can operate in the HP 250 and HP 260 multiple-user environments
- Easy-to-use commands actuated from the keyboard, softkeys, or a command file
- Auto-call unit interface
- Data can originate from the keyboard or a disc file
- Display mode routes all data sent or received to CRT display. Also a Trace mode displays all data and control characters.
- Can operate as a detached task in a background partition
- Files can be concatenated for transmission
- Diagnostic utilities, including loop-back testing
- Short record truncation (2780) is performed without user-supplied EM control characters in the data
- Card reader and card punch (unsupported)
- IBM 2780 six-bit transcode (unsupported)
- Multi-leaving remote job entry (unsupported)

Specifications

Documentation

DSN/RJE User's Manual, part number 45123-90000, comes with both 45123A and 45123R.

Hardware Required

- Any HP 250 or HP 260 Small Business Computer System with 64 Kbyte user memory partition
- An installed Intelligent Network Processor (INP), part number 45122D

Software Required

- Current HP 250 or HP 260 Operating System*
- DSN/RJE software (45123A or 45123R)
- The CS250 DR0M must be configured
- CTRACE and TASK DR0Ms must be configured if trace mode is to be used

* If you do not have the most current Operating System, please contact your OEM or HP Sales Representative for information on upgrading your system.

