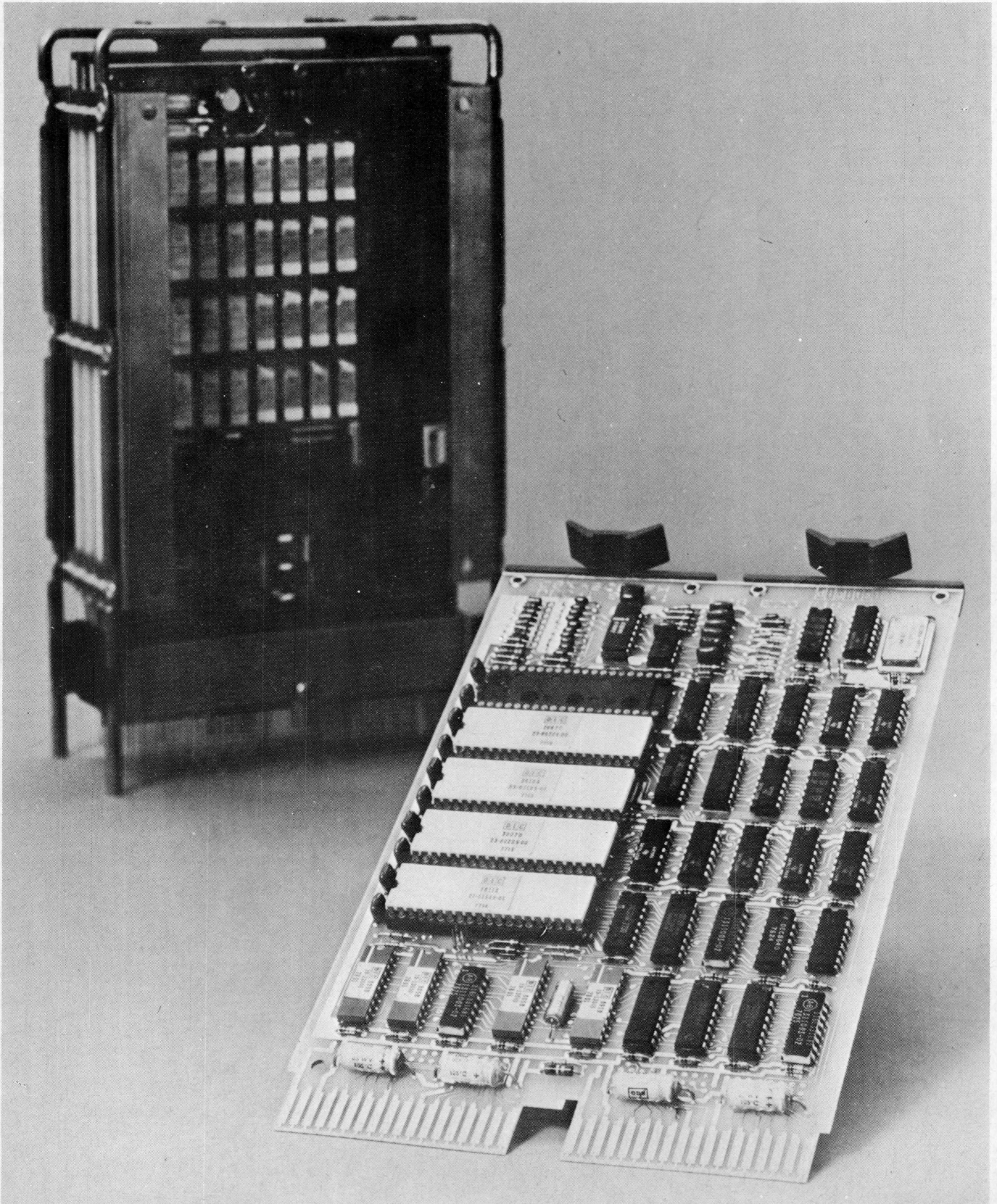


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MICROCOMPUTER LSI-11, 11/03, 11V03

PRODUCT OVERVIEW

COMPONENTS GROUP



COMPONENTS GROUP

PRODUCT OVERVIEW

COMPONENTS GROUP

MICROCOMPUTER PROCESSOR MODULES

Number	Description
KD11-HA	LSI-11/2 Central Processor Unit with power fail/auto restart, 16-bit I/O DMA port, real-time clock input & vector interrupt handling. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
KD11-HF	LSI-11/2 Central Processor Unit as KD11-HA plus 4K x 16-bit Random Access Memory (RAM). Two boards, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
KD11-HB	LSI-11/2 Central Processor Unit as KD11-HA plus 8K x 16-bit Random Access Memory (RAM). Two boards, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
KD11-HC	LSI-11/2 Central Processor Unit as KD11-HA plus 16K x 16-bit Random Access Memory (RAM). Two boards, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
KD11-HD	LSI-11/2 Central Processor Unit as KD11-HA plus 32K x 16-bit Random Access Memory (RAM). Two boards, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
KD11-HU	LSI-11/2 Central Processor Unit as KD11-HA plus UV PROM/RAM memory board. Included are 256 x 16-bit RAM and sockets for up to 4K x 16-bit UV PROM memory chips. NOTE: external 4K x 16-bit RAM is required to execute diagnostics. Two boards, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
KD11-F	LSI-11 Central Processor Unit with power fail/auto restart, 16-bit I/O DMA port, real-time clock input and vector interrupt handling. Also includes 4K x 16-bit Random Access Memory (RAM). Single board, size: 8.5 in. x 10 in. (21.6cm x 25.4cm).
KD11-FA	LSI-11 Central Processor Unit as KD11-F plus 4K x 16-bit Random Access Memory (RAM) for a total of 8K x 16-bit RAM. Two boards, sizes: 8.5 in. x 10 in. (21.6cm x 25.4cm) and 8.5 in. x 5 in. (21.6cm x 12.7cm).
KD11-FB	LSI-11 Central Processor Unit as KD11-F plus 8K x 16-bit Random Access Memory (RAM) for a total of 12K x 16-bit RAM. Three boards, sizes: (1) 8.5 in. x 10 in. (21.6cm x 25.4cm) and (2) 8.5 in. x 5 in. (21.6cm x 12.7cm).
KD11-FC	LSI-11 Central Processor Unit as KD11-F plus 16K x 16-bit Random Access Memory (RAM) for a total of 20K x 16-bit RAM. Two boards, size: 8.5 in. x 10 in. (21.6cm x 25.4cm).
KD11-J	LSI-11 Central Processor Unit with 4K x 16 core memory, power fail/auto restart, 16-bit I/O port (DMA port), real-time clock input, vector interrupt handling. Two boards, size: 8.5 in. x 10 in. (21.6cm x 25.4cm).
KD11-R	LSI-11 Central Processor Unit with 16K x 16 Random Access Memory (RAM), power fail/auto restart, 16-bit I/O port (DMA port), real-time clock input, vector interrupt handling. Two boards, size: 8.5 in. x 10 in. (21.6cm x 25.4cm).
KD11-U	LSI-11 Central Processor Unit with accompanying UV PROM/RAM Memory Board. Processor board includes: power fail/auto restart, 16-bit I/O port (DMA port), real-time clock input, vector interrupt handling. Up to 4K x 16-bit UV PROM memory in 1K increments can be added to separate PROM/RAM board. Only RAM included are 256 x 16-bit memory locations on PROM board. Two boards, sizes: 8.5 in. x 10 in. (21.6cm x 25.4cm) and 8.5 in. x 5 in. (21.6cm x 12.7cm). NOTE: Purchase of separate 4K x 16-bit RAM memory is required to execute diagnostics.
KD11-WA	LSI-11 Central Processor Unit with 16K x 16 Random Access Memory (RAM) and Writable Control Store Module with 1K x 24 RAM. Three boards, size: 8.5 in. x 10 in. (21.6cm x 25.4cm).
KUV11-UH	Writable Control Store Field Upgrade Kit. Includes WCS module cable, and KD11-H (KD11-F without memory) at the required revision level to support the WCS.

PROCESSOR OPTIONS

Number	Description
KEV11	Fixed and floating point instruction set for KD11 central processor unit. 40-pin MICROM chip.

EXPANSION MEMORIES

MMV11-A	4K x 16 core memory. Single board, size: 8.5 in. x 10 in. x 1 in. (21.6cm x 25.4cm x 2.5cm).
MRV11-AA	PROM/ROM memory unit, 32 IC sockets. Accepts 256 x 4 or 512 x 4 fusible link memory devices and masked ROM devices. Maximum capacity 4K x 16. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
MRV11-AC	Unprogrammed fusible link. PROM chip (512 x 4 array size).
MRV11-BA	UV PROM/RAM memory unit. Up to 4K x 16 bit PROM memory in 1K increments. Includes 256 x 16 bit RAM memory locations. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
MRV11-BC	UV PROM chip, 1K x 8 bit storage.
MSV11-B	4K x 16 dynamic Random Access Memory (RAM). Single board, size: 8.5 in. x 5 in. (21.6 x 12.7cm).
MSV11-CD	16K x 16-bit Random Access Memory (RAM). Single board, size: 8.5 in. x 10 in. (21.6cm x 25.4cm).
MSV11-DB	8K x 16-bit Random Access Memory (RAM) including on-board refresh. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
MSV11-DC	16K x 16-bit Random Access Memory (RAM) including on-board refresh. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
MSV11-DD	32K x 16-bit Random Access Memory (RAM) including on-board refresh. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
MSV11-EB	8K x 18-bit Random Access Memory (RAM) including byte parity bits and on-board refresh. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
MSV11-EC	16K x 18-bit Random Access Memory (RAM) including byte parity bits and on-board refresh. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
MSV11-ED	32K x 18-bit Random Access Memory (RAM) including byte parity bits and on-board refresh. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).

COMMUNICATIONS OPTIONS

DLV11	Serial Interface Unit. Optically isolated 20mA current loop or EIA interface levels. Selectable stop and data bits; baud rates from 50-9600. Requires cable. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
DLV11-E	Modem controlling EIA/CCITT serial line unit with programmable speed, character size parity and stop bit. NOTE: Requires BC01V-25 cable. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
DLV11-EB	Modem controlling EIA/CCITT serial line as DLV11-E plus BC01-25 25 ft. (7.6m) cable. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
DLV11-J	Four independently programmable serial line units. Supports RS-422 and RS-423 (compatible with RS-232-C). Selectable parity, data and stop bits. Baud rates from 150 to 38400. EIA interface levels. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm). NOTE: Requires BC21B-05 cable per line.
DLV11-KA	EIA to 20mA in-line converter plus support for 110 baud for use with the DLV11-J. Includes a 3 ft. (1m) cable for interconnection to DLV11-J.

COMMUNICATIONS OPTIONS (cont'd)

Number	Description
DUV11-DA	Synchronous Line Interface. Full-duplex transmission at speeds up to 9600 baud. Interfaces to Bell Series 200 modems. Includes modem cable. Single board, size: 8.5 in. x 10 in. (21.6cm x 25.4cm).
DZV11-B	Four-line asynchronous multiplexer for EIA/CCITT interface. Includes modem control; programmable speed, character size, parity and stop bits; 50 to 9600 baud. Includes 4 cables each 25 ft. (7.6m) long with single 40 pin Berg connector at the module and 4 EIA connectors. Single board size: 8.5 in. x 10 in. (21.6cm x 25.4 cm).

INTERFACE OPTIONS

AAV11-A	12-bit, 4-channel (buffered), D/A converter. Output ranges: $\pm 2.56V$, $\pm 5.12V$, $\pm 10.24V$, $0-5.12V$, $0-10.24V$. Single board, size: 8.5 in. x 10 in. (21.6cm x 25.4cm).
ADV11-A	12-bit, 16-channel, single-ended, (8-channel differential) A/D converter. Input ranges: $\pm 5.12V$, $0-10.24V$. Sample and hold circuitry. $50\mu s$ conversion time. Single board, size: 8.5 in. x 10 in. (21.6cm x 25.4cm).
DCK11-AA	LSI-11 bus I/O interface chip set. Includes an interrupt chip, protocol chip, and four 4-bit transceiver chips.
DCK11-AC	LSI-11 bus interface foundation kit. Includes a M9512 wire wrap module, size: 8.5 in. x 5 in. (21.6cm x 12.7cm), with a 40-pin female Berg connector, a BC07-10 20-conductor 10 ft. long cable with one end terminated in a 20-pin Berg male connector, and one DCK11-AA interface chip set.
DRV11	Parallel Line Interface Unit. 16-bit diode-clamped input; 16-bit latched-drive output. Protocol and control signals. Requires BC04Z-XX cable. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
DRV11-B	Parallel Line DMA Interface Unit. Single-cycle rate: 250K words/sec. Protocol and control signals. Requires BC04Z-XX cable. Single board, size: 8.5 in. x 10 in. (21.6cm x 25.4cm).
DRV11-P	LSI-11 Bus Interface Foundation Module. Preassembled bus interface logic and wire-wrapped area for custom interfaces. Capacity: up to 60 14-pin IC's. Requires BC04Z-10 cable. Single board, size: 8.5 in. x 10 in. (21.6cm x 25.4cm).
KWV11-A	Programmable Crystal Clock with frequencies from 100 Hz to 1 MHz plus 60 cycle and external input. Single board, size: 8.5 in. x 10 in. (21.6cm x 25.4cm).
IBV11-A	Instrument Interface. Conforms to IEEE standard 488-1975 and allows up to 15 instruments to be added to LSI-11 system. Includes cable to first instrument. (BN11-A). Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).

PERIPHERALS

Number	Description
LPV11-PD	180-cps upper/lower case parallel version DECprinter with parallel line interface. 132-column length with switch-selectable form lengths. 128 ASC11 character set. Single interface board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm). (Replacement for LAV11-P.)
PRS01-AB	Portable Papertape Reader. 2400 baud (120 char/sec) serial 20mA asynchronous reader. Requires DLV11 interface.
PRS01-BB	Portable Papertape Reader. 300 baud (22 char/sec) serial 20mA asynchronous reader. Requires DLV11 interface.

PERIPHERALS (cont'd)

Number	Description
RX01K-10	Package of 10 floppy diskettes.
RXV11-AD	Single drive floppy disk with interface. 256K-byte capacity. Interface board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
RXV11-BD	Dual drive floppy disk with interface. 512K-byte capacity. Interface board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).

TERMINALS

LA35-CJ	Receive only upper/lower case DECwriter II printer. 132-column line, 30 cps, 7 x 7 dot matrix, 128 ASCII character set. Requires a DLV11 interface. 20mA current loop.
LA36CJ	Upper/lower case DECwriter II keyboard printer with numeric pad. 132-column line, 30 cps, 7 x 7 dot matrix, 128 ASCII character set. Requires a DLV11 interface. 20mA current loop.
LS120-HJ	DECwriter III keyboard printer which operates on EIA. 132-column, 7 x 7 dot matrix, 180-cps printing designed for serial 1200 baud communications. Requires DLV11 interface.
VT52-AB	DECscope CRT terminal, upper/lower case, 24 lines of 80 characters. Full cursor controls, 19-key numeric keypad with switch-selectable baud rates from 75-9600. Full duplex plus full duplex with local copy. This CRT requires a DLV11 interface. 20mA current loop.
VT52-AF	Same as VT52-AA, EIA version. Requires a DLV11 interface.

ACCESSORIES AND OPTIONS

When assembling multi-backplane systems, a BCV1B jumper cable/terminator assembly and terminator module (TEV11) are necessary. If expanding to a third backplane, one BCV1A-XX jumper cable is needed. At least a 4 ft. (1.2m) length difference must be maintained between the BCV1A-XX and the BCV1B-XX to prevent bus signal reflection.

BA11-MF	Expander box which includes the H9270 backplane and power supply. Dimensions: 19 in. x 13.5 in. x 3.5 in. (48.3cm x 34.3cm x 8.9cm).
BA11-NF	Expander Box. Includes 4 x 9 backplane (LSI-11 bus on slots A & B) with 240 WATT power supply.
BC01V-25	Input/Output Cable with 40 pin Berg and RS232 connectors, 15 conductor. Used with DLV11 for EIA-level. Approximately 25 ft. (7.6m) long.
BC21B-05	Input/Output Cable with 10-pin Berg and RS232 connectors. Used with DLV11-J for EIA level. Approximately 5 ft. (1.5m) long.
BC04Z-10	40-conductor flat ribbon cable with Berg connector at one end and open at the other for use with all DRV11 interfaces. 10 ft. (3.05m) long.
BC04Z-15	Length 15 ft. (4.6m).
BC04Z-25	Length 25 ft. (7.6m).
BC05C-25	Input/Output Cable with 40 pin Berg and RS232 connectors, 25 conductor. Used with DLV11 for EIA-level. Approximately 25 feet (7.6m) long.
BC05M-2C	Input/Output Cable with 40 pin Berg and Mate-n-Lock connectors. Used with DLV11 for 20mA current loop applications. 2.2 feet (.67m) long.
BC08R-01	DRV11 Maintenance Cable. Connects input and output ports for use with diagnostic software.

ACCESSORIES AND OPTIONS (cont'd)

Number	Description
BCV1A-02 BCV1A-04 BCV1A-06 BCV1A-10 BCV1A-12	Jumper Cable/Terminator Assembly. This is used to expand the backplane from the second to the third backplane. Consists of two 8.5 in. x 5 in. (21.6cm x 12.7cm) double height modules interconnected by a 2-, 4-, 6-, 10-, or 12-foot (.6-, 1.2-, 1.8-, 3.1-, or 3.7-m), 40-conductor Berg to Berg connector cable.
BCV1B-02 BCV1B-04 BCV1B-06 BCV1B-10 BCV1B-12	Jumper Cable/Terminator Assembly. This is used to expand the backplane from the first to the second backplane. Consists of two 8.5 in. x 5 in. (21.6cm x 12.7cm) double height modules interconnected by a 2-, 4-, 6-, 10-, or 12-foot (.6-, 1.2-, 1.8-, 3.1-, or 3.7-m), 40-conductor Berg to Berg connector cable.
BN01-1 BN01-2 BN01-4	IBV11-A Cable for Interconnecting Instruments. Distance in meters. IEEE-488 connectors on both ends.
DDV11-B	Backplane with prewired LSI-11 bus (<i>without card guide</i>) designed to accept one microcomputer and up to 16 I/O and/or memory modules. An additional nine unwired slots are also available. Requires a TEV11 or REV11 terminator. 6 x 9 configuration.
H0341	Card guide assembly for DDV11-B backplane.
H780-D	Power Supply for typical LSI-11/H9270 configurations. Without console.
H780-J	Power Supply for typical LSI-11/H9270 configurations. With master console.
H780-L	Power Supply for typical LSI-11/H9270 configurations. With slave console.
H909-C	Expander box including H0341 card guide and space for DDV11-B and power supply. (H780 cannot be used with this box).
H9270	Backplane/card guide assembly. Prewired for LSI-11 bus to accept one microcomputer and up to six I/O and/or memory modules. 4 x 4 configuration.
H9271	Backplane/card guide assembly. Unwired version of H9270.
H9281-AA	LSI-11/2 backplane assembly prewired to accept four 8.5 in. x 5 in. (21.6cm x 12.7cm) modules and power connections. 2 x 4 configuration.
H9281-AB	LSI-11/2 backplane assembly prewired to accept eight 8.5 in. x 5 in. (21.6cm x 12.7cm) modules and power connections. 2 x 8 configuration.
H9281-AC	LSI-11/2 backplane assembly prewired to accept twelve 8.5 in. x 5 in. (21.6cm x 12.7cm) modules and power connections. 2 x 12 configuration.
H9281-BA	Housing assembly for four LSI-11/2 modules including card guides and H9281-AA backplane.
H9281-BB	Housing assembly for eight LSI-11/2 modules including card guides and H9281-AB backplane.
H9281-BC	Housing assembly for twelve LSI-11/2 modules including card guides and H9281-AC backplane.

ACCESSORIES AND OPTIONS (cont'd)

Number	Description
H984-BB	Table-top cabinet for PDP-11/03. Includes rollers, 19-inch (48.3-cm) mounting space, walnut top, and power distribution. 26 in. H x 28 in. D x 21.5 in. W (66.04cm x 71.1cm x 54.6cm).
KPV11-A	Power sequencer/real-time clock. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
KPV11-B	Power sequencer/bus terminator line frequency clock. Provides logic for power failure sequencing and 120 ohm bus terminator loads. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
REV11-A	Refresh/Bootstrap/Diagnostic/Terminator option. External refresh module which is used when the dynamic RAM memory refresh implemented in the LSI-11 or PDP-11/03 CPU microcode is disabled. This option is used to reduce the interrupt latency which exists when operating with the CPU microcode refresh functions. Also included are bootstraps for the RXV11 floppy disk, resident paper tape absolute loader, CPU and memory diagnostics, and 120-ohm bus termination. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
REV11-C	Refresh/Bootstrap/Diagnostic option. External refresh module which is used when the dynamic RAM memory refresh implemented in the LSI-11 or PDP-11/03 CPU microcode is disabled. This option is used to reduce the interrupt latency which exists when operating with the microcode refresh functions. Also included are bootstraps for the RXV11 floppy disk, resident paper tape absolute loader, and CPU and memory diagnostics. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
TEV11	LSI-11 bus terminator module used with the DDV11-B or multiple backplane configurations. Single board, size: 8.5 in. x 5 in. (21.6cm x 12.7cm).
BDV11-AA	Bootstrap/Diagnostics/PROM Option Module. Includes a bootstrap for the RXV11, RKV11, and DECNET, (DLV11-E or DUV11-DA); diagnostics for the CPU, memory, console device, bus hardware, RXV11, DECNET load device (DLV11-E or DUV11-DA); sockets for 16K x 16 ROM chips and 2K x 16 EPROM chips (2708 type chips). This address space can be mapped into 256 words in the LSI-11 I/O page. Led error indicators are provided. Single board size: 8.5 in. x 10 in. (21.6cm x 25.4cm).

PACKAGED DEVELOPMENT SYSTEMS

SR-VXFJA-LD	Microcomputer development system including the LSI-11 CPU, 32K-byte MOS RAM, extended arithmetic chip, bootstrap loader, serial line interface, cable, disk controller, 5 megabyte fixed cartridge disk, 2.5 megabyte removable cartridge disk, cabinet assembly, LA36 DECwriter II terminal and RT-11 real-time operating system—software support, Category A, license with service. Replaces 11T03.
SR-VXFJA-VD	Microcomputer development system including the LSI-11 CPU, 32K-byte MOS RAM, extended arithmetic chip, bootstrap loader, serial line interface, cable, disk controller, 5 megabyte fixed cartridge disk, 2.5 megabyte removable cartridge disk, cabinet assembly, VT52 DECscope terminal, and RT-11 real-time operating system—software support, Category A, license with service. Replaces 11T03.
SR-VXRRRA-LD	Microcomputer development system including the LSI-11 CPU, 32K-byte MOS RAM, bootstrap loader, serial line interface, cable, dual drive floppy disk with 512K byte capacity, disk interface, cabinet assembly, LA36 DECwriter II terminal, and RT-11 real-time operating system—software support, Category A, license with service. Replaces 11V03.
SR-VXRRRA-VD	Microcomputer development system including the LSI-11 CPU, 32K-byte MOS RAM, bootstrap loader, serial line interface, cable, dual drive floppy disk with 512K byte capacity, disk interface, cabinet assembly, VT52 DECscope CRT terminal, and RT-11 real-time operating system—software support, Category A, license with service. Replaces 11V03.

DEVELOPMENT SYSTEMS

11/03-LD	CPU with 16K x 16-bit RAM memory (KD11-R), 240 watt power supply, bootstrap/diagnostic/PROM module (BDV11-AA) and 4 x 9 backplane in rack-mountable chassis. Expansion space of seven quad slots.
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DEVELOPMENT SYSTEMS (cont'd)

Number	Description
11/03-EB	CPU with 4K RAM memory (KD11-F). Power supply and rack-mountable chassis. Expansion space of 6 double slots.
11/03-FB	CPU with 4K core memory (KD11-J). Power supply and rack-mountable chassis. Expansion space of 4 double slots.
11/03-KB	CPU with 16K RAM memory. Power supply and rack-mountable chassis. Expansion space of 4 double slots.
11/03-WD	11/03-LC and Writable Control Store Module with 1K x 24 RAM.

SOFTWARE PACKAGES

Note: All software products listed are furnished under license for use on a single CPU only and may be copied (including DIGITAL's copyright notice) only for use on that CPU.

Software products include the distribution media and complete documentation, except those ending in -DZ. The -DZ license enables the customer to replicate a copy of the software product on his own media for use on a single CPU.

RT-11 Real-Time Operating System (Version 3) designed for the single user. Includes single job monitor and foreground/background monitor. RT-11 system programs include EDIT, MACRO-11, LINKER, ODT, and utilities. Minimum hardware: CPU with 8K (16K for foreground/background operation).

	DISTRIBUTION MEDIA	SUPPORT CATEGORY
QJ013-AY	Floppy Disk (RX01)	A
QJ013-CY	Floppy Disk (RX01)	C
QJ013-DZ	NONE (License Only)	C

RSX-11S Operating System (Version 2). RSX-11S provides a run-time environment for execution of tasks which have been generated by an RSX-11M, RSX-11D or IAS development system (minimum hardware for development system-11/34). Minimum hardware: 8K LSI-11 or 11/03, RXV11 floppy disk (load media), line-time clock (standard on the 11/03).

	DISTRIBUTION MEDIA	SUPPORT CATEGORY
QJ642-AY	Floppy Disk (RX01)	A
QJ642-CY	Floppy Disk (RX01)	C
QJ642-DZ	NONE (License Only)	C

FORTTRAN/RT-11 (Version 2), optimizing extended superset of the ANSI standard FORTRAN IV language running under RT-11. Prerequisite: license to use RT-11 (Version 3).

	DISTRIBUTION MEDIA	SUPPORT CATEGORY
QJ813-AY	Floppy Disk (RX01)	B
QJ813-CY	Floppy Disk (RX01)	C
QJ813-DZ	NONE (License Only)	C

SOFTWARE PACKAGES (cont'd)

APL-11 (Version 1). Interactive programming language for scientific, engineering and business applications. Prerequisite: license to use RT-11 (Version 2C or later).

	DISTRIBUTION MEDIA	SUPPORT CATEGORY
QJ907-AY	Floppy Disk (RX01)	B
QJ907-CY	Floppy Disk (RX01)	C
QJ907-DZ	NONE (License Only)	C

BASIC-11/RT-11 (Version 2). Single user Dartmouth Standard BASIC language processor. Prerequisite: license to use RT-11 (Version 3).

	DISTRIBUTION MEDIA	SUPPORT CATEGORY
QJ913-AY	Floppy Disk (RX01)	B
QJ913-CY	Floppy Disk (RX01)	C
QJ913-DZ	NONE (License Only)	C

Multi-user BASIC/RT-11. 1-8 users. Ability to run either foreground or background concurrently with other jobs. Prerequisite: license to use RT-11 (Version 2C or later).

	DISTRIBUTION MEDIA	SUPPORT CATEGORY
QJ921-AY	Floppy Disk (RX01)	B
QJ921-CY	Floppy Disk (RX01)	C
QJ921-DZ	NONE (License Only)	C

FOCAL/RT-11 (Version 1B). Interactive programming language ideal for scientists, engineers and students. Prerequisite: license to use RT-11 (Version 2C or later).

	DISTRIBUTION MEDIA	SUPPORT CATEGORY
QJ922-AY	Floppy Disk (RX01)	B
QJ922-CY	Floppy Disk (RX01)	C
QJ922-DZ	NONE (License Only)	C

REMOTE/RT-11. Provides software development, downline loading and file transfer capabilities on RT-11 host for one to eight LSI-11 satellites. Prerequisite: license to use RT-11 (Version 2B or later).

	DISTRIBUTION MEDIA	SUPPORT CATEGORY
QJ945-AY	Floppy Disk (RX01)	B
QJ945-CY	Floppy Disk (RX01)	C
QJ945-DZ	NONE (License Only)	C

SSP-11/RT-11 Scientific Subroutine Package for FORTRAN/RT-11. Prerequisites: licenses to use RT-11 and FORTRAN/RT-11.

	DISTRIBUTION MEDIA	SUPPORT CATEGORY
QJ960-AY	Floppy Disk (RX01)	B
QJ960-CY	Floppy Disk (RX01)	C
QJ960-DZ	NONE (License Only)	C

SOFTWARE PACKAGES (cont'd)

RT-11/LSI-11 2780 (Version 2). Provides emulation of the IBM 2780 Model 1 remote batch terminal. Operates under the RT-11 foreground/background monitor only. Requires at least 16K words of memory for operation. Prerequisite: License to use RT-11 (Version 2C or later).

	DISTRIBUTION MEDIA	SUPPORT CATEGORY
QJD58-AY	Floppy Disk (RX01)	A
QJD58-CY	Floppy Disk (RX01)	C
QJD58-DZ	NONE (License Only)	C

PTS-11 Paper Tape System. A collection of stand alone programs including ED-11 Editor, PALS Assembler, LINK-11S Absolute Loader, ODT-11X debugging tool, IOX Dump-AB. Minimum hardware: 8K LSI-11 or 11/03 and ASR33 teletype.

	DISTRIBUTION MEDIA	SUPPORT CATEGORY
QJV10-CB	Paper Tape	C

PROM Formatter Software. This software generates correctly formatted tape from which a PROM chip can be blasted. Compatible with many manufacturers' PROM loaders. Minimum hardware: 4K LSI-11 or 11/03.

	DISTRIBUTION MEDIA	SUPPORT CATEGORY
QJV11-CB	Paper Tape	C

RT-11 Run Time System – RT² (Version 3) real-time operating system for single user run-time only environment. This license is for selected modules in RT-11 (Version 3) which provide run-time support for application software written in MACRO-11 or FORTRAN. Optionally supports BASIC, FOCAL, or APL. Includes the RT-11 monitor, device handlers, and file maintenance utilities. Does not include EDIT, MACRO-11, LINKER, or ODT. Minimum order 50. Prerequisite: license to use RT-11 (Version 3).

	DISTRIBUTION MEDIA	SUPPORT CATEGORY
QJV13	NONE	C

Writeable Control Store Software Development Tools/RT-11. Include micro-assembler, loader, debug, and save routine. Source license required. Prerequisite: RT-11 (Version 3).

	DISTRIBUTION MEDIA	SUPPORT CATEGORY
QJV40-YY	Floppy Disk (RX01)	C

LSI-11 Basic Diagnostics. Tests processor, exercises memory, isolates problem modules, exercises I/O devices. Minimum hardware: 4K LSI-11 or 11/03.

	DISTRIBUTION MEDIA	SUPPORT CATEGORY
ZJV01-RB	Paper Tape	C

LSI-11 System Diagnostics. Includes basic diagnostics plus added modules for complete floppy disk based systems.

	DISTRIBUTION MEDIA	SUPPORT CATEGORY
ZJ215-RY	Floppy Disk (RX01)	C

SOFTWARE SUPPORT CATEGORIES

CATEGORY A: Includes software installation, 90 days remedial service (on-site where necessary) and 1 year warranty service. Any Software Updates released by DIGITAL during the 1 year period following installation will be provided for the cost of the distribution media.

CATEGORY B: Includes 1 year warranty service and Software Updates availability outlined in Category A. Does not include software installation or 90-day remedial service.

CATEGORY C: No support services are provided with this software.

