SMS

Scientific Micro Systems, Inc.

Industry Leadership

Scientific Micro Systems is a leading supplier of microcomputer systems, data storage systems and peripheral controllers for use by Original Equipment Manufacturers (OEMs). The company has earned its reputation by providing high quality, technically superior products for nearly a decade. SMS products address OEM requirements for DEC®-, Multibus®- and General Purpose (SCSI/SASI)- based microcomputer designs. Since 1977, SMS has shipped nearly 14,000 system products and 40,000 peripheral controllers to customers throughout the world.

The company's dedication to customer satisfaction, financial stability, management excellence and quality of products and people is a fundamental ingredient to its success. OEMs are assured the long-term benefits of doing business with a company that has a long history of profitability guided by senior management with a half century of collective experience at SMS. The company's commitment to quality is evidenced by long tenure amongst employees and strong OEM customer partnerships.

Customer Service Commitment

SMS has established long-term OEM relationships by working closely with customers during the design phase of projects. This ensures that SMS' contribution to the final solution solves real problems and provides significant benefits. After a customer relationship is established, SMS provides rapid deliveries and ongoing technical assistance to foster quick and successful implementation.

SMS offers a range of support services to meet the specific needs of customers. An experienced technical support team is available for telephone resolution of time-sensitive issues. All SMS products are warranted for six months, with extended coverage available. The SMS Emergency Service Program guarantees critical part replacement within 24 hours if circumstances dictate. On site, third-party service is also available through more than 50 Kalbro locations throughout the United States. SMS distributors can provide similar support in international locations. For OEMs who choose to handle their own service, SMS offers comprehensive training and spares programs.

Innovative and Quality Products

While SMS products assure compatibility with established microcomputer architectures, SMS customers realize major benefits through engineered performance, flexibility and reliability features that are unavailable from other suppliers. For example, SMS' DSX-11 microcomputer was the first integrated LSI-11 system that offered up to 80 Mbytes of Winchester storage—plus a choice of floppy or tape storage for backup. More recently, the MDX-11 and MDX-80 Series microcomputers were the first to integrate a 5¼-inch Winchester with either an LSI-11/23 or Multibus microcomputer in a compact desktop system.

To insure high quality products, SMS has developed powerful in-house test systems to verify all critical components when they are received, before they are integrated into final systems. After final assembly, each SMS system is subjected to a continuous burn-in for 72 hours. Each system is extensively self-tested for unit integrity and then tested in a typical user environment employing proprietary diagnostic programs and appropriate operating system software. In this way, an OEM customer is assured of a thoroughly tested product that promises long-term reliability.

FT-200I Series

RS-232C Compatible Floppy Storage Systems.

- Two 8" single-sided or double-sided floppy disk drives.
- IBM single-density and double-density formats.
- 19.2K baud RS-232C data rate transfer.
- Choice of X-on/X-off or transparent data operation.
- Compact 5¼" high rack mount or tabletop package.
- Front panel controls for self test, local/remote, diskette copy and format operation.

FWT-50 Series

SASI compatible 8" Winchester/Floppy Storage Systems.

- Compatible with SASI interface standard.
- 8.9, 17.8, 35.6 or 71.2 Mb (formatted) Winchester disk storage.
- Double-sided floppy supports IBM 3740 and 2/2D formats.
- Direct non-interleaved data transfer, ECC and self test capability.
- Uses SMS FWD 5001 controller.

FWD5001

SASI Compatible 8" Winchester/Floppy Controller.

- Supports 8" Shugart/Quantum Winchester and 8" Shugart floppy disk drives.
- SASI compatible interface.
- Requires only +5 volt power.
- Programmable disk sector size, offset and error retry.
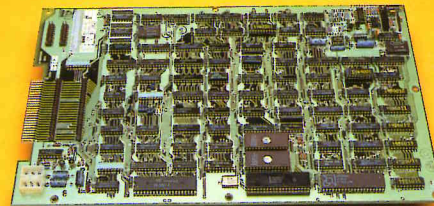
DSX-11 Series

LSI®-11 8" Winchester-Based
Microcomputer Systems.

- 8.9, 17.8, 35.6 or 71.2 Mbytes
  (formatted) 8" Winchester disk
  storage.
- Choice of 8" RX02/IBM floppy or
  21.4 Mbyte ¼" cartridge tape.
- Measures 10.5" H x 17" W x 19" D
  for tabletop or rack mounting.
- Eight slot quad wide 22 bit Q-bus®
  backplane.
- Power supply provides 30 Amps
  at +5 volts to the backplane.
- Line time clock, run, and power
  switches.
- ECC, error retry and non-interleaved
  disk data transfer.
- Available with LSI-11/23 or LSI-11/73
  CPU, memory and RS-232C ports.
- Transparent to RT®-11, RSX®-11M,
  RSX-11M-PLUS and TSX-PLUS®
  software.

MDX-11 Series

LSI-11 5¼" Winchester-Based
Microcomputer Systems.

- 10.6, 15.9 or 35.6 Mbyte (formatted)
  5¼" Winchester disk storage plus
  8" RX02/IBM floppy.
- Compact 11.2" H x 9.5" W x 17" D
  tabletop package.
- Four slot quad wide 22 bit Q-bus
  backplane.
- Power supply provides 20 Amps
  at +5 volts to the backplane.
- Line time clock, run, self test
  switches and indicators.
- ECC, error retry and non-interleaved
  disk data transfer.
- Available with LSI-11/23 or LSI-11/73
  CPU, memory and RS-232C ports.
- Transparent to RT-11, RSX-11M,
  RSX-11M-PLUS and TSX-PLUS
  software.

MTX-11 Series

Multi-user 5¼" Winchester-Based
Microcomputer Systems.

- Standard SMS MDX-11 with
  MICRO/TSX-PLUS® multi-user
  operating software.
- Supports 3 terminals and 1
  spooled printer.
- Allows RT-11 single-user appli-
  cation software to run in multi-
  user environments.

FWT-11 Series

Floppy and Winchester/Floppy
Storage Systems.

- Compatible with DEC Q-bus,
  Unibus® and VAX computers.
- 8.9, 17.8, 35.6 or 71.2 Mbytes (for-
  matted) 8" Winchester disk storage.
- Double-sided floppy supports
  DEC RX02 and IBM formats.
- 22 bit addressing support.
- ECC, error retry and non-interleaved
  disk data transfer.
- Optional full DEC RX02 floppy
  compatibility (dual floppy systems).
- Transparent to RT-11, RSX-11M,
 RSX-11M-PLUS and TSX-PLUS
  software.

FWT-11 Series

Winchester/Tape Storage Systems.

- *Compatible with DEC Q-bus, Unibus and VAX computers.*
- *17.8, 35.6 or 71.2 Mbytes (formatted) 8" Winchester disk storage.*
- *Up to 21.4 Mbytes of ¼-inch cartridge tape backup.*
- *Cartridge tape emulates DEC TS-11 supported by RT-11, RSX-11M, RSX-11M-PLUS and TSX-PLUS.*
- *22 bit address, ECC, error retry, non-interleaved data transfer and self test features.*

Winchester/Floppy Disk and ¼" Cartridge Tape Controllers

- *FWD0101/FWD1101 interfaces Q-bus/Unibus to Shugart/Quantum Winchester and 8" Shugart floppy disk drives.*
- *FWD0106/FWD1106 interfaces Q-bus/Unibus to 5¼" Winchester and 5¼" floppy or 8" Shugart floppy disk drives.*
- *TS0100/TS1100 interfaces Q-bus/ Unibus to ¼" Kennedy 6455 tape drive. Emulates DEC TSV05 tape interface (TS-11 device handler).*
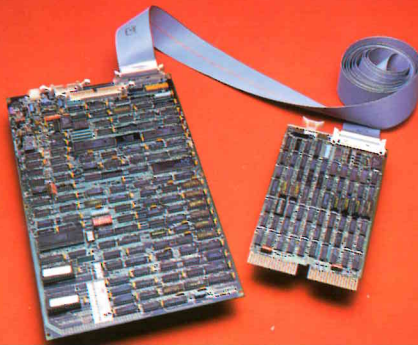
DEC Software

- *Single-user RT-11 license, documentation and complete distribution on 8" floppy or ¼" cartridge tape. Includes utility module for image backup, drive/media formatting and diagnostics.*
- *RSX-11M/RSX-11M-PLUS license, documentation and complete distribution on 8" IBM floppy or ¼" cartridge tape. Includes utility module for image backup, drive/ media formatting and diagnostics.*
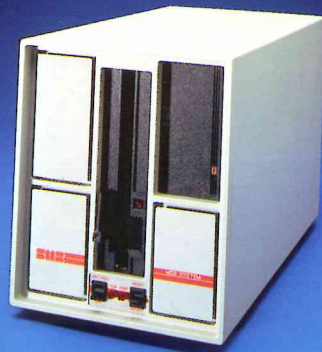
DSX-80 Series

8086 8" Winchester-Based Microcomputer Systems.

- 9.4, 18.8, 37.7 or 75.4 Mbytes (formatted) 8" Winchester disk storage.
- Double-sided floppy supports IBM and INTEL 202 formats.
- Measures 10.5"H x 17¼"W x 19"D for tabletop or rack mounting.
- Eight slot Multibus backplane.
- Run, bus and power indicators. Interrupt and reset switches.
- Power supply provides 30 Amps at +5 volts.
- ECC and error retry.
- Available with 86/30 CPU, memory, RS-232C ports and math coprocessor.

MDX-80 Series

8086 5¼" Winchester-Based Microcomputer Systems.

- 10.6, 15.9 or 37.7 Mbytes (formatted) 5¼" Winchester disk storage plus 8" IBM/202 floppy.
- Compact 11.2"H x 9.5"W x 17"D tabletop package.
- Five slot Multibus backplane.
- Write protect, reset/interrupt, self test switches. Run, power and error indicators.
- Power supply provides 20 Amps at +5 volts.
- ECC and error retry.
- Available with 86/30 CPU, memory, RS-232C ports and math coprocessor.

FWT-80 Series

Floppy and Winchester/Floppy Storage Systems.

- Compatible with IEEE796/Multibus interface standard.
- 9.4, 18.8, 37.7 or 75.4 Mbytes (formatted) 8" Winchester disk storage.
- Double-sided floppy supports IBM and INTEL 202 formats.
- Transparent to INTEL iRMX®-86 software.
- Uses SMS FWD8001 iSBC® 215 compatible controller.
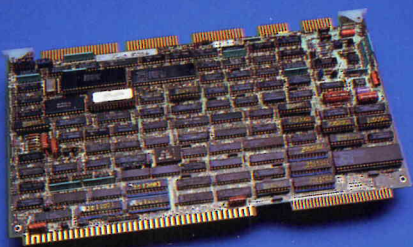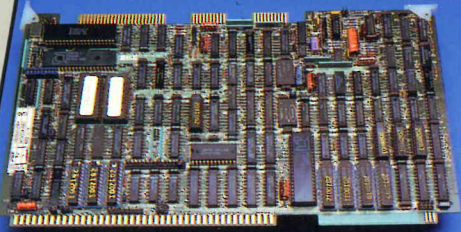- 24 bit addressing, ECC, and self test capability.

SMS

FWD8001

8" Winchester/Floppy Controller.

- Supports 8" Shugart/Quantum Winchester and 8" Shugart floppy disk drives.
- iSBC215 and iSBX218 Multibus compatible interface.
- 32-bit ECC corrects up to 6 bit errors.
- On-board data separation and direct cabling to disk drives.
- Self test capability.
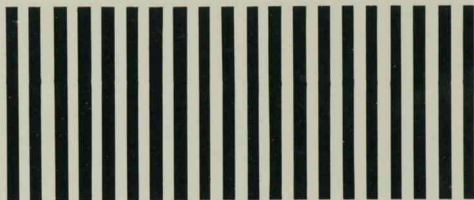- Track level flaw management support.

FWD8006

5¼" Winchester and 8"/5¼" Floppy Controller.

- Supports 5¼" ST506 Winchester and 8"/5¼" Shugart compatible floppy disk drives.
- iSBC215 and iSBX®218 multibus compatible interface.
- 32-bit ECC corrects up to 6 bit errors.
- On-board data separation and direct cabling to disk drives.
- Self test capability.
- Track level flaw management support.

DEC SYSTEMS

Feature/Product	FWT01xxx	FWT11xxx	MDX01xxx	DSX01xxx
RX02/IBM Floppy	■	■	■	■
¼" Cartridge Tape (option)	■	■		■
Q-bus Backplane			■	■
Q-bus Interface	■		■	■
Unibus Interface		■		
Self Test	■	■	■	■
ECC	■	■	■	■
Non-interleaved Transfer	■	■		■
8" Winchester	■	■		■
5¼" Winchester			■	

MULTIBUS SYSTEMS

Feature/Product	FWT8017x	MDX8017x	DSX8017x
IBM/202 Floppy	■	■	■
Multibus Backplane		■	■
Self Test	■	■	■
ECC	■	■	■
8" Winchester	■		■
5¼" Winchester		■	

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  Western: Pnambic Systems, Inc. (206) 282-0199
Authorized SMS Service Representative for DEC Products:
  Kalbro Corporation (609) 778-1800

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Central:	9238 Mango Drive, Morton Grove, IL 60053 (312) 966-2711
Northcentral:	1526 N. 31st Street, Melrose Park, IL 60160 (312) 345-5320
Southcentral:	2400 Hilldale Boulevard, Arlington, TX 76016 (817) 429-8527
Northwest:	20427 N.E. 162nd Street, Woodinville, WA 98072 (206) 883-8303
Southwest:	26001 Nellie Gail Road, Laguna Hills, CA 92653 (714) 643-8046

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