

MSP III and MPP III Series add to mobile application capabilities

For a wide range of portable, handheld, and pen based computers. Uses the Epson M190 series print head rated at 60 characters per second. Dual track reading of magnetic cards.



Mini Serial Printer



Mini Parallel Printer



Features

- Prints standard ASCII characters and dot addressable graphics
- Capability to switch printer on/off from remote computer
- Operates from rechargeable battery pack or power adapter
- 24 or 40 column versions
- CPU watchdog timer
- Power brownout detectors
- Housed in high impact, attractive, shock proof molded ABS housing
- Lightweight (only 14.5 ounces)

- Easy to replace single or two-ply paper roll is fully enclosed within the printer housing
- Three software selectable resident fonts
- Fast paper feed support
- One year warranty
- OEM Products: Design services available

Options:

- Parallel communication interface
- Belt mounted case
- Built-in Magnetic card reader- Simultaneous two track reading

Information provided is provisional and subject to change.

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EXCELLENCE IN TECHNOLOGY



Extech Series MSP/MPP Portable Printers

The Print Head:

Powerful Philips CPU on highly integrated circuit boards manages all the features supported by the printer

The Printer Controller:

Designed using an extremely low powered Philips microprocessor and a highly integrated programmable peripheral chip with 32k EPROM for decoding logic with 2k print buffer. The controller has 17 I/O bits dedicated to the printer mechanism driver transistors, serial, TTL and parallel interfaces, test/feed and 8 position DIP switch for setting printer operating features. A CPU watchdog and supervision chip is included to protect from brownout.

Data Input Interfaces:

Supports RS232, parallel and magnetic card input with full handshaking capability. RS232 is handled through the power board. Serial and parallel data is printed, while the mag card input may be printed and/or transmitted.

Built in Fonts:

Three built in resident fonts: the Extech standard (International ASCII) character set IBM extended and Hebrew font selected by 'ESC+n' command.

Simultaneous Dual Track Read for Magnetic Card Reader:

Two tracks from the magnetic card can be read simultaneously with a single pass of the card. On board processor converts data to ASCII and sends to host computer on command.

Dip Switch Controls Communication Protocol:

A six position switch unit controls baud rate, stops bits and parity, XON/XOFF and RTS/CTS handshaking.

Specifications:	24 Column	40 Column
Characters per line:	24 (12 column width)	40 (20 column width)
Character size (HxW):	2.6 x 1.7mm	2.6 x 1.1mm
Column Spacing:	2.06mm	1.29mm
Dots per line:	144	252
Print Speed:	60 cps	60 cps
(at 4.8 VDC)	2.5 lines/sec	1.5 lines/sec
Lines of print per charge:	18,000	11,000
Paper rolls per charge:	~10	~6
Printhead life:	1,500,000	900,000
Line Spacing:	3.78mm (0.15")	
Line Buffering:	2K	
Baud Rate:	1200, 2400, 4800, 9600 baud	
Handshaking:	CTS/RTS and /or XON/XOFF	
Ribbon Type:	Epson ERC-09 or ERC-22	
Lines of Print/Roll:	1800 (1" diameter Roll)	
Printer Method:	Impact dot matrix: (8 print solenoids)	
Plain Paper:	57mm (2.25") width x 7.6mm (23') length	
Ribbon Life:	250,000 characters (ERC-09)	500,000 characters (ERC-22)
Power:	4x1.2v (900 ma/hr) rechargeable NiCad batteries or AC/DC adapters	
Power ON/OFF:	Via switch or by raising RTS (ON) or lowering RTS (OFF)	
Connection:	Standard DB-25 female type	
Dimensions:	92mm (3.6")W x 106mm (4.2")L x 54mm (2.1")H	
Weight:	410g (14.5oz) with paper and battery pack	

Communication Interface Options:

RS-232C or parallel are the standard interfaces

Mag Card Reader Specifications (Option):

Mag Stripe:	Reads cards conforming to ISO standards (ABA, IATA and MINTS)
Models:	Track 1 & 2, or 2 & 3
Ceramic Head:	Long life - More than one million card passes
Internal ROM:	Converts mag card reader data to standard ASCII format to be sent out through serial port

Environmental Specifications:

Operating Temperature 32 to 122°F (0 to 50°C)
Storage Temperature -4 to 140°F (-20 to 60°C)
Humidity up to 90% RH (noncondensing)
Exceeds industry standard for drop

Agency Approvals:

FCC	Part15J Part B
CE	EN55022 Part B
	EN50082-1



Ordering Information:

Series MSP and MPP Portable Serial/Parallel Printers

(All printers include NiCad battery pack, and paper roll)

Mini Serial Printer III (MSP III):

76816F1	MSP III 24 column (117V)
76818F1	MSP III 40 column (117V)

Mini Parallel Printer III (MPP III):

77016F1	MPP III 24 column (117V)
77018F1	MPP III 40 column (117V)

Mag card reader option: Add suffix, "R2" for Tracks 1 & 2, "R3" for Tracks 2 & 3
Substitute "M" for "F" for optional male DB25 connector (serial only)
Substitute "R" for "F" for RJ11 connector (serial only)

Accessories:

151129	Power Adapter, 12VDC
756993	Belt Pouch Case (Rigid)
757058	Spare paper, pkg. of 5 rolls
757131	Spare printer ribbon - purple
757135	Spare paper, two ply, pkg. of 5 rolls
767500	4 Unit Battery Recharger