



Mobile Data Computer Version 4.1

General Description

The Mobile Data Computer (MDC) Version 4.1 has several improvements over the previous versions.

- 384KB of RAM
- 512KB of FLASH memory
- Variable supply voltage output on com port 1 (2.7 to 11.5V)
- J-1708 capability
- Future J-1850 capability (Pending)
- Enhanced backlight
- Differential GPS input (pin 1 com 2)
- More PC card addressing (up to 32 MB)
- Built in odometer signal conditioner
- Improved audio switching matrix
- Software selectable pull up or pull down on VEHI4
- Optional 16 channel GPS receiver with available WAAS compatibility
- Optional Internal DSP modem (up to 9600 bps)
- Optional Economy 8 channel GPS receiver
- Optional internal wireless modem (Spread Spectrum, 1xRTT, Mobitex, Datatac, or iDEN)

Compliance

- "e" mark
- FCC part 15, Class A
- Industry Canada RSS-210
- UL/CSA 60950 Safety of Information Technology Equipment

Key Specifications

- Supply Voltage

Typical	12 V
Min	9 V
Max	18 V
- Current Consumption

Standby	5.5 mA
Typical ¹	250 mA
Maximum ²	1.0 A
- Operating Temperature³

Min	-30 °C
Max	60 °C

Standard Features

- 240X64 Transflective Backlit Graphical LCD Display
- 5 Analog Inputs
- 4 Digital I/Os
- Covert Microphone
- Internal Smart Card and Magnetic Card Reader

Optional Features

- Internal GPS – Requires Active GPS Antenna
- PCMCIA SRAM Memory
- Internal Wireless Data Modems
- 4800 – 9600 bps Modem⁴

1. LCD heater off, GPS, DSP, no modem, no PC card, full backlight, 12V Power. Does not include peripheral devices connected to interface ports of the MDC.
2. LCD heater on, GPS, DSP, no modem, no PC card, full backlight, 18V Power. Does not include peripheral devices connected to interface ports of the MDC.
3. Operating the MDC beyond the given temperature specifications is not recommended and may reduce lifespan. MDC should be mounted low on the dashboard to prevent temperature extremes.
4. For use with conventional 2-way radio systems.

WARNING

MENTOR ENGINEERING INC. RESERVES THE RIGHT TO CHANGE CIRCUITRY AND SPECIFICATIONS WITHOUT NOTICE AT ANY TIME. PLEASE ENSURE YOU HAVE THE MOST RECENT REVISION OF THIS DOCUMENT.

NOTE

OPERATION AT TEMPERATURES OUTSIDE THE RECOMMENDED RANGES IS NOT RECOMMENDED. TEMPERATURE RANGES ARE A LIMITATION OF THE BATTERY AND LCD DISPLAY.

NOTE

ONLY USE MENTOR ENGINEERING APPROVED CABLES FOR INSTALLATION PURPOSES. REFER TO THE HARDWARE INSTALLATION MANUAL FOR ADDITIONAL INFORMATION.
