



Hub-Data9II continues its commitment to developing state-of-the-art technology with its 6th generation Mobile Computer System, the M6.

The M6's three-piece design makes installation and maintenance a snap. The rugged construction of the M6 holds up to the harsh environment of Public Safety vehicles.

Featuring mobile processors, including the Intel® Core™ 2 Duo, the M6's industry leading design offers future-proof upgrade options backed by a 3 year + 3 month all-inclusive warranty.

The M6 CPU supports all Hub-Data9II M-series and L-series displays, known for being the brightest, thinnest and most rugged touch screens available for vehicular computing.



Hub-Data9II

M6 Specifications:

CPU

Processor	Intel® Celeron® M 370 processor 1.5 GHz, Intel® 915GM Chipset, 1 MB On-die Second Level Cache, 400 MHz Front Side Bus
Processor Options*	Intel® Pentium® M 760 processor 2.0 GHz, Intel® 915GM Chipset, 2 MB On-die Second Level Cache, 533 MHz Front Side Bus Intel® Core™ 2 Duo T7500 processor 2.2 GHz, Intel® 965 Express Chipset, 4 MB On-die Second Level Cache, 800 MHz Front Side Bus
Video Controller	Integrated with Intel® Graphics Media Accelerator and dynamic allocation
Internal Memory	1 GB DDR2 or 2 GB DDR2 or 4 GB DDR2
Mass Storage Options	Removable Extreme Environment Hard Drive: 40 GB, 60 GB or 80 GB SATA Removable Solid State Drive: 30 GB, 60 GB
Operating System	Microsoft® Windows® XP Professional, SP3 or Microsoft® Windows® 7 Professional**
Physical Size (H x W x D)	Metric = 63.5 x 336.6 x 146.1 mm Standard = 2.5 x 13.25 x 5.75 in Height with shock-isolating mount = 119.1mm (4.69in)
Weight	2.5 kg (5.45 lbs.)

COMMUNICATIONS AND EXPANSION PORTS

PC-Card	One Type I/II CardBus, on front of CPU
ExpressCard	One 34 mm or 54 mm, on front of CPU
GPI/O Port (6 wires)	2 General Purpose Outputs (battery level logic) 1 General Purpose Input (ground/float) 1 General Purpose Input (robust TTL level voltage sense) 1 Output (switched battery) 1 Input (ignition sense)

I/O PORTS

RS232	Three (COM 1, COM 2, COM 3)
USB	Four 2.0 (2 on front, 2 on back) 2 strain relief options Additional 2 USB Option
External Drive	One eSATA (External Serial ATA) 150 MB/sec
Ethernet LAN RJ45	Intel® 1 Gb/sec Base-T
Primary Display Interface	Low Voltage Differential Signal (LVDS)
Secondary Display Interface	Low Voltage Differential Signal (LVDS) (option*)
Analog VGA	One RGB DB-15 connector
FireWire	One IEEE 1394
Audio	Speaker out (2W amplified) Line in (non-amplified) External Microphone in (non-amplified)

*Contact your sales representative for pricing and availability.

** Microsoft® Windows® 7 Professional available only with Intel® Core™ 2 Duo T7500 processor

INTERNAL RADIO OPTIONS AND COMMUNICATIONS PROTOCOLS*

One internal PCI Express Mini Card Slot allows for a Wireless Local Area Network option or other PCI Express Mini cards

WLAN	Intel® WiFi Link 5100 802.11 a/b/g/n (Wi-Fi Personal Area Network Capabilities)
WWAN	Tri-band UMTS/HSDPA 3.6, Quad-band GSM/GPRS/EDGE or Dual-band CDMA 1xEV-DO-Rev A/1xRTT Internal USB interface
GPS	Garmin 15xL: Supports NMEA 0183 protocol Version 2.00 and 3.00. WAAS enabled GPS receiver continuously tracks and uses multiple satellites to accurately compute and update your position to within 3 meters. Requires separate 3.3v tolerant antenna with SMA connector.

ELECTRICAL ENVIRONMENT

The M6 supports 12V operation so you can install into a vehicle without power converters.

Power Source Options	Vehicle Battery 12V, Negative Ground
Input Voltages	6 to 18VDC, with no loss of functionality
Power Consumption	At 13.8VDC: Off \approx 0.015 Amps Hibernate Mode \approx 0.015 Amps Rest (display blanked) \approx 2.42 Amps Typical (display in day mode) \approx 3.95 Amps Maximum \approx 4.60 Amps

POWER CONTROL MODULE

The M6 features a Power Control Module which initiates a graceful shutdown or hibernation of the system upon alarm.

The PCM monitors:

- Ambient temperature and prevents operation above 65.6°C and below -25°C to prevent CPU damage
- Battery voltage and allows for operation based on a voltage window
- Power supply's main rail output for operational performance
- Internal case temperature and provides a graceful shutdown
- Power supply cavity temperature and provides a secondary signal for blower operation
- Internal real time clock for time triggered events

ENVIRONMENTAL & DURABILITY

The following specifications were third-party tested according to MIL-STD-810F methods.

Storage Temperature	-40° C to +85° C (-40° F to +185° F)
Operating Temperature	-25° C to +65.6° C (-13° F to +150° F)
Relative Humidity	5% to 95% (non-condensing) at 60° C
Sealing	IP54
Shock	75g at 11 ms half sine
Crash Hazard	100g at 2 ms half sine
Vibration	Random 1g RMS, 5-500 Hz

REGULATORY

United States and Canada Radiated Emission	FCC Part 15 Class B
Europe	eMark Compliant CE RoHS Compliant

DISPLAYS

15.0 inch Display:

Display type	Active Matrix Color
Display resolution	1024 x 768 XGA
Display viewing area	15.0 inches diagonal
Brightness	1200 NITS
Backlight type	CCFL
Viewing angle	+/- 60 degrees
Touch panel	Capacitive
Construction	Heavy-gauge aluminum case
Dimensions	311.2 x 355.6 x 38.1 mm (12.25 x 14.0 x 1.5 in)
Weight	4.1 kg (9 lbs)

12.1 inch Display:

Display type	Active Matrix Color
Display resolution	1024 x 768 XGA
Display viewing area	12.1 inches diagonal
Brightness	1200 NITS
Backlight type	LED
Viewing angle	+/- 80 degrees
Touch panel	Capacitive or Resistive
Construction	Heavy-gauge aluminum case
Dimensions	244 x 274 x 25 mm (9.025 x 10.995 x 1.0 in)
Weight	2.1 kg (4.64 lbs)

8.4 inch Display:

Display type	Active Matrix Color
Display resolution	800 x 600 SVGA
Display viewing area	8.4 inches diagonal
Brightness	1000 NITS
Backlight type	LED
Viewing angle	+/- 60 degrees
Touch panel	Capacitive
Construction	Heavy-gauge aluminum case
Dimensions	186.7 x 209.6 x 27.0 mm (7.35 x 8.25 x 1.06 in)
Weight	1.3 kg (2.88 lbs)

KEYBOARDS

Backlit Illuminated Keyboard with Touchpad:

- 82 key compact QWERTY design
- USB Connector
- Plastic injection molded top with metal bottom for ease of customizing mounting techniques
- 8 levels of backlight intensity
- Overall dimensions: 196.9 x 304.8 x 31.8 mm (7.75 x 12 x 1.2 in)
- Weight: <1 kg (<2 lbs)

Watertight Rugged Duty Keyboard:

- 88 key compact QWERTY design
- USB Connector
- Fully sealed with integrated pointing device
- Watertight: NEMA 4
- 6 levels of backlight intensity
- Overall dimensions: 160 X 289.6 X 41.8 mm (6.3 X 11.4 X 1.7 in)
- Weight: <1 kg (<2 lbs)

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