HDT 600
HANDHELD
DATA TERMINAL

⊙ MOTOROLA
intelligence everywhere™

WIRELESS COMMUNICATIONS AVAILABLE

- Radios (all with internal antennas):
  - Bluetooth™
  - Wireless LAN: 802.11b 11 Mb/s
  - GSM/GPRS Tri band
  - Private DataTAC 800 MHz
  - iDEN
- Wireless combinations offered:
  - GSM/GPRS, Wireless LAN, Bluetooth
  - Private DataTAC and Bluetooth
  - Wireless LAN and Bluetooth
  - GSM/GPRS and Bluetooth
  - iDEN and Bluetooth
  - Bluetooth

TERMINAL FEATURES

- Windows® CE 3.0
- 16 MB Flash and 32 MB SDRAM
- Active reflective 3.5" 1/4 VGA color LCD with front-light
- Tempered Glass Resistive Touch screen
- 8 Programmable Keys, Tricolor LED indicator, Buzzer
- Serial port accessible via vehicle cable
- Bar Code Scanner: 1D and manual 2D (Optional)
- 2 internal PCMCIA type II Slots or 1 type III
- Li-Ion 7.2V 1,400 mAh battery (10-hour duty cycle for typical use)

The Motorola Handheld Data Terminal (HDT 600) puts everything you want in a data management tool in the palm of your hand. This ultra portable, feature-rich, productivity-enhancing performer combines sophisticated wireless technology and uncompromising toughness. So wherever users go, they can receive and transmit "real time" information in no time.

The HDT 600 is a lightweight, tough-as-nails device that takes the functionality of a Personal Digital Assistant (PDA) further. It integrates three different radio options Personal Area Network (PAN), Wireless Wide Area Network (WWAN) and Wireless Local Area Network (WLAN) and built-in bar code scanning in one comprehensive solution.

It is supported with a Software Development Kit (SDK) allowing easy development of 3rd party Windows CE-based applications.

For more information please go to the Motorola HDT 600 web page:
http://hdt600.motorola.com/

HDT 600 SHOWN IN CRADLE

ELECTRICAL SPECIFICATIONS

Processor	Hitachi SH4 @133 MHz
Non Volatile Memory	FLASH 16 MB
Volatile Memory	SDRAM 32 MB
Display	3.5" color LCD active TFT w/front illumination, 240 x 320 pixels (1/4 VGA)
Touch Panel	Tempered glass, Graphic digitizer
Keypad	9 keys: 4 scan keys, 4 soft Function keys, and Power On/Off key
Visual Indicator	Tricolor LED, Software controlled
Audible Beeper	80 dBA SPL @ 10cm, 3.5 kHz .8 to 10 kHz programmable
Serial Port	RS-232 Tx and Rx accessible through vehicle cradle, 115.2 kb/s
Personal Area Network	Bluetooth v1.1 RF communication to access cordless accessories (Per IEEE 802.15.1)
Local Area Network	IEEE 802.11b 11 Mb/s
Wide Area Network	GSM / GPRS Tri band Data Radio, iDEN or Private DataTAC
PC Card	Internal 2 x Type II slots (used by the LAN and WAN radios)
Bar Code Scanner	1D and manual 2D (PDF 417) Bar Code
Main Battery	Lithium-Ion, 7.2V, 1,400 mAh 10 hr duty cycle (typical use) 3 hr re-charge time (typical use)

SOFTWARE

Operating System	Windows CE v3.0
Development Tools	Microsoft® Visual Embedded Tools 3.0 and C++ SDK with Bluetooth USB Adapter
Diagnostics	Power-On-Self-Test
OS Image Loader	Via serial port
Application Loader	Via WLAN data radio or Bluetooth
Bluetooth Profiles Supported	GAP, SDP, DUN, SPP, LAN, HS, OPP

PHYSICAL SPECIFICATIONS

Weight	597 grams (21.1 oz) (without bar code scanner and radios)
	677 grams (23.9 oz.) (with bar code scanner and radios)
Dimensions	209 mm L x 90 mm W x 39 mm D (8.2"L x 3.5"W x 1.5"D) (Grip area 90 mm wide)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	−20° to +60°C (−4° to +140°F)
Storage Temperature	−30° to +70°C (−22° to +158°F) (short term storage)
Humidity	5% to 95% @50°C for 8 hours non-condensing
Dust/Fluid Protection	Per IP64 (CATEGORY 2) 8 hours dust, 10 minutes water
Vibration	Per TIA/EIA 603 Paragraph 3.3.4, 10 to 60 Hz, up to 2.6 G
Mechanical Shock	Per TIA/EIA 603 Paragraph 3.3.5, 20 G, 11 ms
Drop Resistance	Per IEC 68-2-32 Procedure I 4' (1.2 m) onto concrete
Tumble Resistance	Simulating 1000 Random Drop 0.3' (.09 m) to 2.75' (.84 m) on metal surface at −20, +25, +50°C
Solar Radiation	Per IEC 68-2-5 Procedure A Section 4.6(A), 3 cycles, 24 hours
Salt Fog	Per MIL STD 810E, 509.3 Procedure I, 35°C, 48 hours
Electrostatic Discharge	Per EN55024/EN61000-4-2

WIRELESS COMMUNICATION

Nomenclature	Wireless System	Frequency Band	Power	Antenna	FCC Designation
F4415	Bluetooth	2.4 GHz	1 mW	Internal	AZ489FT7003
VA00024	Wireless LAN (USA)	2.4 GHz	100 mW	Internal	AZ489FT7003
VA00016	GPRS on GSM/DCS/PCS	900/1800/1900 MHz	2 W/1 W/1W	Internal	AZ489FT7003
VA00052	Private DataTAC	806-825 MHz	1.8 W	Internal	AZ489FT7004
VA00010	iDEN	806-821 MHz	600 mW	Internal	AZ489FT7007

ORDERING INFORMATION

Nomenclature	Description
F4415	HDT 600 Basic with Bluetooth
F4416	Vehicle Cradle
FVN1730	Software Development Kit, HDT600

REGULATORY

Radiated & Conducted Emission	FCC Part 15 Class B, and Part 90, ICES-003 (Class B) European Union CE/EMC Directive 1999/5/EC. EN50081-1, EN61000-4-2 (Pending)
Laser Products Safety	CDRH 21 (Class II), CFR1040.10/1002.10, IEC60825 (Class II)

MOTOROLA