

# MTC100

TETRA Handheld Computer. Safe. Secure. Reliable.

## SPECIFICATION SHEET



### KEY FEATURES

- Integrated TETRA Modem for Wide Area communications
- Real-time secure access to information sources to enhance decision making and reporting
- Latest Windows® Mobile 2005 OS with security and messaging enhancements
- Secure applications environment offers device management and data protection
- Ruggedised platform meeting IP54 and Mil STD810-F specs to ensure reliable operation in working environments



Public Safety, Local Government, Transportation, Utilities and many other user groups are all adopting TETRA as the first choice for critical communication needs.

Motorola is a world leader in the development and deployment of TETRA communication solutions, and the MTC100 TETRA Handheld Computer is the worlds first PDA with TETRA wireless capability.

#### Powerful and Flexible

The MTC100 offers a host of features designed to enhance the productivity and effectiveness of its users. Offering multi-mode wireless connectivity users can be connected to enterprise data where and when needed. For mobile users in the field, TETRA provides

a secure wide-area data bearer – whether accessing databases or submitting field reports. The optional WiFi capability also allows connection to your wireless LAN where available, providing flexibility in access to mobile information.

#### Rugged Mobile Computing

Designed and tested to offer reliable computing in the field, the MTC100 run the latest industry standard Windows® Mobile 2005 operating system, with security and memory enhancements suited to deployment of your critical applications.



The MTC100 delivers instant access to data through multiple wireless networks. The integrated GPS receiver enables access to mapping and development of location based services.



The integrated camera and LED flash can capture images for use in reports, while Bluetooth enables connection to wireless devices such as printers and data capture devices.

MODELS	
<b>MTC100 Standard Edition</b>	Handheld PDA with Windows Mobile 5 Premium Edition, 64MB RAM, 128MB ROM, Integrated TETRA Radio Modem
<b>MTC100 Enhanced Edition</b>	As Standard Edition, plus: Integrated 802.11b/g Wireless Modem Integrated Bluetooth radio Integrated GPS receiver

## PRODUCT SPECIFICATIONS

PERFORMANCE CHARACTERISTICS:	
<b>Processor</b>	Intel® XScale™ PXA27x, 520MHz
<b>Memory</b>	<b>Internal:</b> 64MB RAM / 128MB Rom <b>Expansion:</b> User accessible SD slot with protective cover, supports SD cards.
<b>Operating System</b>	Microsoft® Windows™ Mobile 5.0, Premium Edition
<b>Power Supply</b>	
<b>Battery:</b>	3.7V 3600mAh extended capacity Li-Ion removable / rechargeable
<b>AC Power Adaptor:</b>	<b>Input:</b> 110-240V A.C. 0.6A max 50-60Hz <b>Output:</b> 5V D.C 3A Centre Positive
PHYSICAL	
<b>Dimensions (mm)</b>	145 x 83 x 32 typ to 145 x 83 x 50 max
<b>Weight (g)</b>	450g maximum, 430g typical
USER INTERFACE & DISPLAY	
<b>Display Image Size</b>	3.5" (89mm) diagonal
<b>Type</b>	240 x 320 Transflective TFT panel, 256K colours
<b>Backlight</b>	LED backlight with variable brightness control
<b>Touch Panel</b>	Glass 4-wire resistive analog, 3H hardness Stylus - can be tethered to carrying accessory
<b>Status Indicators Power:</b>	two colour charge indication LED
<b>WiFi Status:</b>	W-LAN coverage indicator LED
<b>Hardware Buttons</b>	<b>Front Face:</b> 4 assignable function buttons 5-way navigation and select joystick Power button (On / Off / Backlight) <b>Side faces:</b> One assignable function button per side <b>Reset:</b> Warm reset, cold reset via discreet switch
<b>Audio</b>	Integral 500mW speaker and microphone with OS support for voice record and audio playback (Voice over TETRA WAN is NOT supported)
ENVIRONMENTAL SPECIFICATION	
<b>Operating Temperature (°C)</b>	-20 to + 60. Lilon battery performance degrades at -10C.
<b>Storage Temperature (°C)</b>	-30 to + 75
<b>Humidity</b>	MIL-STD 810F Method 507.4
<b>Dust &amp; Water Sealing</b>	IP54 (cat.2) IEC 529 class
<b>Drop / Shock</b>	MIL-STD 810F Method 516.5 Proc IV - multiple 1.2m drops onto concrete
<b>Electrostatic Discharge</b>	15kV air discharge, 8kV contact

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**WIRELESS DATA COMMUNICATIONS - ALL MODELS**

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<b>Wide Area Network (TETRA)</b>	<b>Radio Type:</b>	TETRA TOM100 Modem
	<b>Data Services:</b>	TETRA SDS and Packet Data
	<b>Data Rates (PD):</b>	Single Slot: 7.2 Kbps gross Multi Slot: up to 28.8kbps gross
	<b>Frequency band:</b>	380 - 430 MHz
	<b>Transmit power:</b>	1W (30 dBm)
	<b>Antenna Type:</b>	External antenna
	<b>Security:</b>	TETRA Air Interface Encryption (Class 2, Class 3) TEA1, TEA2, TEA3 algorithm

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**WIRELESS DATA COMMUNICATIONS - ENHANCED MODEL ONLY**

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<b>Personal Area Network (PAN)</b>	<b>Radio Type:</b>	IEEE 802.15 Bluetooth™ 1.1 and 1.2, Class
	<b>Frequency band:</b>	2.4000 to 2.4835 GHz
	<b>Antenna Type:</b>	Internal embedded antenna
<b>Local Area Network (W-LAN)</b>	<b>Radio Type:</b>	IEEE 802.11 b/g Modem
	<b>Data Rates:</b>	802.11g - up to 54 Mbps
	<b>Frequency band:</b>	2.4000 to 2.4970 GHz
	<b>Antenna Type:</b>	Internal embedded antenna
	<b>Security:</b>	WEP 64/128 bit WPA Radius (EAP-TLS, PEAP, TTLS, and LEAP*) WPA-PSK and Microsoft VPN IPSEC and PPTP

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**DATA CAPTURE & GPS**

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<b>Camera</b>	<b>Resolution:</b>	1.3M pixel CMOS CCD sensor
	<b>Flash:</b>	Ultra-bright LED illumination
<b>GPS (Enhanced Model Only)</b>	<b>Receiver:</b>	16 channel receiver with DGPS and SBAS (WAAS, EGNOS) support

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**REGULATORY COMPLIANCE**

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<b>Radio (R&amp;TTE Article 3.2)</b>	EN 303 035-1 V1.2.1	
<b>EMC (R&amp;TTE Article 3.1.b)</b>	EN 301 489-01 V1.3.1	
	EN 301 489-18 V1.2.1	
<b>Electrical Safety (R&amp;TTE Article 3.1.a)</b>	EN 60950:2001	
<b>Environmental</b>	Directive 2002/96/EC	WEEE
	Directive 2002/95/EC	RoHS

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**PERIPHERALS AND ACCESSORIES**

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<b>A/C Travel Charger</b>	Suitable for charging PDA via Charge/Programming Adaptor or connection to the Desk Charging Cradle
<b>Desk Charging Cradle</b>	Desktop charging and docking station with slot for charging additional battery. USB Serial connection allowing connection to PC for Activesync synchronisation and for configuration of the TETRA Modem (using CPS software)
<b>Charge / Programming Adaptor</b>	Interface adaptor for connection of A/C Travel Charger and USB connector for programming cable
<b>Key Variable Loader (KVL) Adaptor</b>	Interface adaptor for connection to Motorola KVL device for configuration of crypto keys (required for options using TETRA Air Interface Encryption). Also provides connection for AC Travel Charger and USB interface for programming
<b>Carrying &amp; Other Accessories</b>	A range of carrying solutions is available including carry cases, carry strap and belt clip, and display covers to provide additional protection

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**MOTOROLA**

**Motorola Limited, EMEA Headquarters**

Jays Close, Viabes Industrial Estate, Basingstoke, RG22 4PD, UK  
Telephone: +44 (0)1256 358211

[www.motorola.com](http://www.motorola.com)

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control number here

For more information contact your local Motorola  
Authorised Two-Way Radio Dealer.



**Midgårdsvägen 20, S-973 34 LULEÅ**  
**Tel: 0920-22 24 10, Fax: 0920-22 24 20**  
**E-Mail: [info@vianetab.se](mailto:info@vianetab.se)**  
**Gsm: 070-545 14 52, 070-545 17 81**