

# TETRA M230<sup>®</sup>

ELEGANT AND ULTRA-SLIM TETRA M230 PROVES

**RUGGED MACHINES DON'T NEED TO BE BULKY**

- Multi-bay Feature Maximizes Flexibility and Customized Applications
- 14,1" TFT XGA or 15,1" TFT SXGA (1400 x 1050) display
- MIL-STD 810F and IP54 Compliance
- Optional MIL-STD 461E
- Full Magnesium Alloy Case
- Sealed Ports and Connectors
- Shock-mounted Removable HDD
- Vibration & Drop-shock Resistant
- Sunlight Readable LCD Screen
- Versatile Wireless Access: WLAN, WWAN and BT
- Fan-less Design



\* Option



Semi-Rugged | **Rugged** | Fully-Rugged



## ■ TETRA M230<sup>®</sup>

The TETRA M230 is the newest rugged portable notebook computer for extreme today's "on-the-go" road warriors.

The IP54 design means that the TETRA M230 is designed to survive the extreme use and needs of today's "on-the-go" road warriors in field service, utilities, construction, telecommunications, military, police, fire and emergency services (EMS), data collection in science, oil and gas exploration where wind-blown, heavy rain, three-foot drops off the back of a truck, and temperatures from -20 to 60°C may be encountered.

# TETRA M230<sup>®</sup>

## ■ Specifications

PROCESSOR	Intel® Core™ Duo L2400 LV 1,67 GHz;
FSB	667MHz
CACHE	2 MB L2
CHIPSET	Intel 945GM
RAM MEMORY	512 MB to 2 GB DDR2
VGA CONTROLLER	Integrated to Intel 945GM chipset; 128 MB shared RAM
HDD	80GB Removable SATA HDD
	Option : HDD heater for low temperature -20°C
	120 / 160 GB removable HDD
MULTIMEDIA BAY	Easy swappable bay for CD-ROM/COMBO Drive/ DVD Dual (+R/RW, -R/RW) Recorder DVD combo (=graveur CD/lecteur DVD) 2 <sup>nd</sup> Li-Ion Battery 3700 mAh.
POWER SUPPLY	AC adapter 90W, 100-240V, 50/60Hz
BATTERY	Li-Ion Bat. 7800 mAh / 11.1V - 9 cells
	Option : 2 <sup>nd</sup> Li-Ion battery 3700 mAh
KEYBORAD	Waterproof rubber keyboard
	Option : Waterproof backlight rubber keyboard
TOUCHPAD	Touchpad type
AUDIO	2W Stereo speaker

## ■ Interfaces

PCMCIA	Type II x2 or Type III x1 + Smart card reader
I/O PORTS	Serial port x1 - PS/2 x1 - USB2.0 x2 External VGA x1 - Parallel port x1 (swappable to serial port) CRT port x1 - DC input x1- RJ-45 - RJ-11 -Microphone Line-out - IrDA - Kensington Lock - Docking port
	Option : IEEE1394 x1( instead of PS/2 x1) Serial port x2 (RS232, 422 etc....) instead of Parallel port

## ■ Communication

	Ethernet Gigabit 10/100/1000 base -T Modem 56 Kbps; Wireless Intel Pro 3945 a/b/g
Option :	GPS (with internal antenna) Bluetooth V2.0 class II Wireless 3G+ (GSM/GPRS/EDGE/UMTS/HSDPA)

## ■ Operating system

Windows 2000 / XP Pro / Vista

## ■ Display

	14,1" TFT XGA (1024 X 768) or 15,1" TFT SXGA+ (1400 X 1050)
Option:	Touchscreen display Sunlight readable solution

## ■ Environment

	MIL-STD810F, IP54 Explosive atmosphere MIL-STD810F method 511.4
Option:	MIL-STD461E

## ■ Dimensions

14,1" :	328 mm (l) x 46mm (h) x 272 mm (p) Weight : 4.2 Kg
15,1" :	338 mm (l) x 46 mm (h) x 286 mm (p) Weight : 4.4 Kg



## PORTS :

Serial port (from USB I/F) x 2  
Parallel port (from USB I/F) x 1  
BNC S-Video (from USB I/F) x 2  
USB x 1  
Docking port (POGO) x 1  
Microphone x 1  
Line-out x 1  
GPS/WLAN pass through antenna X 2 (x1 for each)

## FEATURES OF DOCKING :

Start car ignition Yes  
Charge via car adapter Yes  
Power on indicator Yes  
2W x 2 stereo speakers Yes

## SPECIAL OPTION :

Low temperature V20°C option



Environment : MIL-STD810F		
	OPERATING	STORAGE
TEMPERATURE	IEC 68-2-1,2,14 / MIL-STD-810F, method 501.4, 502.4	
	0°C to +60°C -20°C to +60°C (option)	-40° to +70°C
HUMIDITY	IEC 68-2-30/MIL-STD-810F, method 507.4	
	5% to 95% RH, non-condensing	
ALTITUDE	IEC 68-2-13/MIL-STD-810F, method 500.4	
	4 600 m (15,000 ft)	12 200 m, (40,000 ft)
	Altitude change rate 610 m (2,000 ft/min)	
SHOCK	IEC 68-2-27/MIL-STD-810F, method 516.5	
	15g, 11ms, 1/2 sinus	50g, 11ms, 1/2 sinus
DROP	IEC 68-2-32 / MIL-STD-810F, method 516.5	
	0.9 m (3 ft)	
VIBRATION	IEC 68-2-6 / MIL-STD-810F, method 514.5	
	10~57.5Hz/ 0.075mm , 57.5~500Hz/1.0 g	
	MIL-STD-810F, 514.5C1-high way truck vibration exposure	
		10~57.5 Hz/0.15 mm, 57.5~500 Hz/2.0 g
	MIL-STD-810F-514.5C-17 general minimum integrity exposure	
SALT FOG	5% Sodium Chloride (NaCl). 48 hr between 1 and 3 ml/80 cm2/hr	
ENCLOSURE	IP 54 Certified	
ESD	IEC1000-4-2	
REGULATION	FCC part 15, Subpart B, C, Class B, UL, CUL, TUV, CE! , CB, CCC, WHQL, BSMI	
EXPLOSIVE ATMOSPHERE	MIL-STD810F method 511.4	
OPTION : MIL-STD461E		