

# Toronto 9000

## full screen terminal

Toronto 9000 is a rugged vehicle mounted computer with a Pentium-class low-power CPU for high reliability and performance. It is designed for vehicle mounting or wall-mounted static applications, ideal for distribution centres, transportation, docks, manufacturing, depots, warehouses, agriculture, shipyards, and lumberyards.

Toronto 9000 has a special design without ventilation holes that makes the front panel, back cover and sides comply with IP54/IP65. The rugged die-cast aluminum enclosure replaces the fan as it helps Toronto 9000 dissipate heat. Toronto 9000 can therefore be placed in harsh environments with dust and humidity.

Toronto 9000 is designed to be used in both wireless and wide area networks with its expansion capabilities for 802.11b/g, GPS, GSM or GPRS. In addition to Windows® XP PRO and XP, Toronto 9000 also supports DOS and Linux.



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### Some of the many key features of the Toronto 9000

- Fanless for higher reliability
- 15" TFT Touch Screen Display
- Rugged coated aluminium enclosure
- Meets VESA standard for flexible installation
- No ventilation holes and water-resistant
- On/Off power switch on device
- Automatic switch-off
- Integrated Keyboard
- External Keyboard Option
- Cold Store Version, -30°C operation

See reverse for the technical specification.



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## TECHNICAL SPECIFICATION

MODEL	TORONTO 9000	MODEL	TORONTO 9000
<b>HOUSING</b>		<b>POWER SUPPLY UNIT (INTERNAL)</b>	
Material:	Coated Aluminium	AC power supply unit:	110/230 VAC, 100 W, 50 to 60 Hz
Bracket:	Several mounting brackets for fixed or vehicle mount applications	DC power supply:	24/48 VDC, 60 W and 100 W, galvanically isolated Voltage sags up to 10VDC can be handled for up to 20 sec.
Dimensions:	326 x 395 x 121mm / 12.8" x 15.6" x 4.8" (including fan)		12 VDC, 100 W, galvanically isolated Voltage sags up to 5 VDC can be handled for up to 20 sec. at 80 W
Weight:	8.3kg	Power consumption:	35 - 70W (depending on the display)
<b>DISPLAY(INTERNAL)</b>		<b>FEATURES</b>	
	Colour-TFT, 15", XGA, 1024 x 768 pixel, typical 450 cd/m <sup>2</sup>	Brightness control:	Manual/automatically
Touch Panel:	Resistive or capacitive analogue Touch Panel, Mouse compatible	On/Off:	On/Off switch integrated in front panel
<b>SYSTEM PROPERTIES</b>		Automatic shut down:	Initiated by ignition signal (automatically) or by the On/Off switch (manually) the operating system is properly shut down and the device is switched off. Otherwise the PC would be switch-off 'hard'
CPU:	Intel®Celeron® M 800 Mhz, 1 GHz or Intel®Pentium® M 2 GHz	Screen-Blanking:	Disables the display under certain conditions (e.g. vehicle is moving)
Chipset:	Intel® 82915 + Intel® 82801 FBM (ICH6-M)	Environment controller:	Statistics, configuration and monitoring functions (temperature, ignition, backlight etc.)
RAM:	512 MB up to 1 GB DDR2	Heating:	For operation in deep freeze (-30°C)
Sound:	Optional feature	WLAN antenna:	Antennas for several applications
<b>SOFTWARE</b>		Integrated keyboard	4 Keys Power, Backlight +/-, Backlight on/off or with 25 keys additionally F1-F12, 0-9, Dot, Backspace, Shift, Arrow keys, ESC, Enter, Page up/down, Home, End, 2 additional keys
Operating systems:	DOS, MS-Windows XP Professional, XP Embedded, Linux on request	External keyboard:	Can be used in parallel to integrated soft keyboard
Emulations:	VT100, VT220, IBM 5250 Citrix Client Freefloat Access One	<b>ENVIRONMENTAL CONDITIONS</b>	
<b>MASS STORAGE</b>		Protective class:	IP54 / IP65 (assuming cable cover mounted properly)
CF card:	currently up to 16GByte	Certificates:	CE/FCC Class A
Hard disc:	20/40 GByte (Shock-/Vibration up to class 5M2)	Operating temperature:	0° to +50°C (operating temperature < 0°C / < 32°C on request)
CD/Floppy/Memory Stick:	drive external (via USB), bootable from DOS	Storage temperature:	-30°C to +60°C
<b>INTERFACES</b>		Relative humidity:	10% to 90% at 40°C, non condensing Class 5M3 according to EN 60721-3-5 (1997) (terrestrial vehicle)
Serial:	2 RS232 interfaces, alternatively 1 x RS-232 or 1 x RS-232 or 1 x RS-422/485 optional feature: Com 1 5V or 12V	Vibration:	5h random vibration 3.6 g effective and 36 shocks 30 g Or US Highway Truck as MIL-STD 810F: 2000 (Department of Defense)
USB:	2 interfaces USB 2.0 (HI-SPEED™) compatible		3 h random vibration 1g effective and 18 shocks 20 g peak
Keyboard/Mouse:	Standard 6 pol. Mini-DIN connector (PS/2 interface)	<b>PORTS</b>	
<b>PORTS</b>		PCI port:	1 x PCI port 32 Bit, Rev. 2.2 compatible for short card (max. length 5.55 inches / 174 mm)
Internal Cardbus*:	1 Cardbus port for Type I/II (16/32 bit) or	Internal Cardbus*:	1 Cardbus port for Type I/II (16/32 bit) or
PCIe MiniCard*:	1 x PCIe MiniCard	PCIe MiniCard*:	1 x PCIe MiniCard
<b>NETWORK</b>		<b>NETWORK</b>	
WLAN:	Cardbus/PCIe MiniCard IEEE 802.11 b/g, IEEE 802.11g	WLAN:	Cardbus/PCIe MiniCard IEEE 802.11 b/g, IEEE 802.11g
LAN:	Ethernet card 10/100 MBit/s	LAN:	Ethernet card 10/100 MBit/s



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