Technical Data CAR-PC

Processor	Weight	Shock
486 DX-4 75 MHz Flash-BIOS by Kontron Elektronik Intelligent Power Management Password protection; "Fast Boot" configurable (no memory check)	Control system: -3.5 kg Terminal: -0.7 kg	Operating: 10 g, 11 ms Half sine Non-operating: 20 g, 11 ms Half sine
RAM 4, 8, 16, 0R 32 MB	**Operating Systems** ROMDOS, MS-DOS, Windows, OS/2, UNIX.	**Vibration** *operating:* 10…58 Hz: 0.075 mm 58…200 Hz: 0.5 g *non-operating:* 10…58 Hz: 0.15 mm 58…200 Hz: 1 g
Bus 3 ISA slots ¾ length (185 mm) available	**Terminal** Detachable up to 5 meters from the Control System with digital interface (LVDS) 6.5" TFT display, 640 x 480 pixel, 256 colors Brightness control up to 200 cd/m^2 Contrast ratio > 100:1 7 keys: Cursor keys and 3 function keys (scan code of all keys is configurable by software)	**Safety** EN60950/TUV/DIN VDE 0805/IEC950
Power Supply 11…16 volt DC Current: 2.0…5.0 A while heating additional: 1.0 A	**Temperature** Temperature Management by microcontroller – switches heater and ventilation. If the system is too cold to start, the integrated heater is activated; the system then auto starts when possible. operating: -10…+50ºC non-operating -20…+60ºC<	**Vehicle Approval** e1 (German "Kraftfahrtbundesamt")
Mass Storage Hard Disk: > 800 MB	**Humidity** 10…80% (no condensation)	**EMC:** **Emission** *Conducted Emission:* EN 55022 B *Radiated Emission:* Kfz-Richtlinte 72/245/EWG Kfz-Richtlinte 95/54/EG part 1 6.5/6.6
Interfaces One serial RS232 PS/2 mouse and keyboard External VGA connector		**Immunity** *Electromagnetic Fields:* Kfz-Richtlinte 72/245/EWG Kfz-Richtlinte 95/54/EG part 1 6.7 ENV 50204 Conducted Susceptibility: ENV 50141 *Voltage Variation:* DIN 40839 part 1 (EMI in vehicles - conducted emission at 12 V power lines)
Options Operating hours counter with "on/off counter" and fixed serial number PCMCIA 2 X Type II		
Dimensions Control System: 284 x 218 x 110 mm Terminal: 236 x 148 x 35 mm		

Overview Nowadays, communication and navigation facilities increase the need for computers that can be used in vehicles. The new CAR-PC from Kontron Elektronik has been specially developed for this kind of application.	**Control System** This module includes the PC functionality. 3 free ¾ length ISA expansion slots ensure easy customization. The compact and rugged housing is designed to be mounted in a car's boot.	**Expansion** • GPS module (satellite based navigation) • Electronic compass • GSM module (Data exchange)
Applications • Fleet Management • Navigation • Test & Measurement in Vehicles • Mobile Communication	**Terminal** The terminal displays video information on a bright VGA TFT screen and transmits keystrokes to the control system. It is designed to be mounted within the operation area of the driver / front passenger. A suction disk mounting may be used for temporary applications.	**Environment** The CAR-PC is designed to withstand tough vehicle environments such as shock, vibration, and wide range of temperatures.
System This very compact system contains the control system and the terminal. Both parts are easily mountable even in a confined car environment.	**Connection** A 5 meter cable connects the terminal with the control system. Digital differential data transmission ensures communication without interference.	