

CARAT-Box



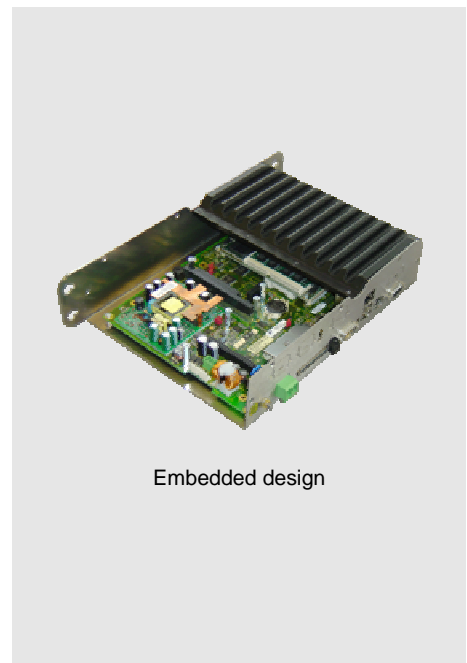
Embedded control cabinet computer – ETX compatible platform –

The Embedded computer of the CARAT-Box series are comprehensive systems, both, for simple complex machine controls and remote visualization systems.

Hardware and embedded operating system are adjusted with each other optimally. The systems are compiled and configured as required by the customers.

The CARAT-Box is characterized by high operating safety at rough environmental conditions. Because of fanless and cableless system design, the CARAT-Box is interference-free and maintenance-free.

For integration into conduct and field level, an Ethernet and field bus interface has been integrated. Due to high flexibility in system configuration, the cabinet PC can be integrated into almost any communication and control environment.



Embedded design



Technical Data

Cooling	Fanless
Housing / Protection class	Mechanically stable, aluminium anodized/ stainless steel ground surface housing to be installed in cabinet; mounting is possible on rear side of housing ("book format"). Protection class IP 20 Note: The housing of the CARAT-Box does not feature any fire protection according to DIN EN 60950 since the application is explicitly designed for cabinet mounting.
Baseboard / CPU	Base board for integration of CPUs on standardized ETX form factor Celeron M, 600 / 1000 MHz
	<ul style="list-style-type: none"> • 1 MB SRAM with back-up battery for remanent data • 3 status LEDs, freely configurable • Power-Fail detection, buffer capacitor • CF socket external free for user data 256 / 512 MB / 1 GB / 2 GB • Watchdog for system safety • Diagnostic tool and bootloader software
Memory	256 / 512 MB / 1 GB SDRAM
Interfaces	<ul style="list-style-type: none"> • Serial: - COM1 as RS 232, 1x PS/2 - COM2 as RS 232 / RS 485 (option) • Fieldbus (CANopen, DeviceNet, PROFIBUS, MPI) or PC/104 slot • Ethernet (RJ-45 socket): 10/100 Base-T • 2 USB 2.0 • PS/2 keyboard connection • VGA connection
Supply voltage	24 VDC (18..36 VDC)
Power consumption	72 W max.
Ambient temperature	+0 °C to +45 °C
EMV	
interference emission	EN 61000-6-4
interference resistance	EN 61000-6-2
Shock load in operation	EN 60068-2-27
Oscillating load in operation	EN 60068-2-6
Mechanical dimensions	59.5 x 305 x 193 (in mm)
Operating system	Windows XPe, further operating systems upon request
Optional user software	Upon request
Endurance test	24 h Burn-In
Test certificate	CE, UL in preparation