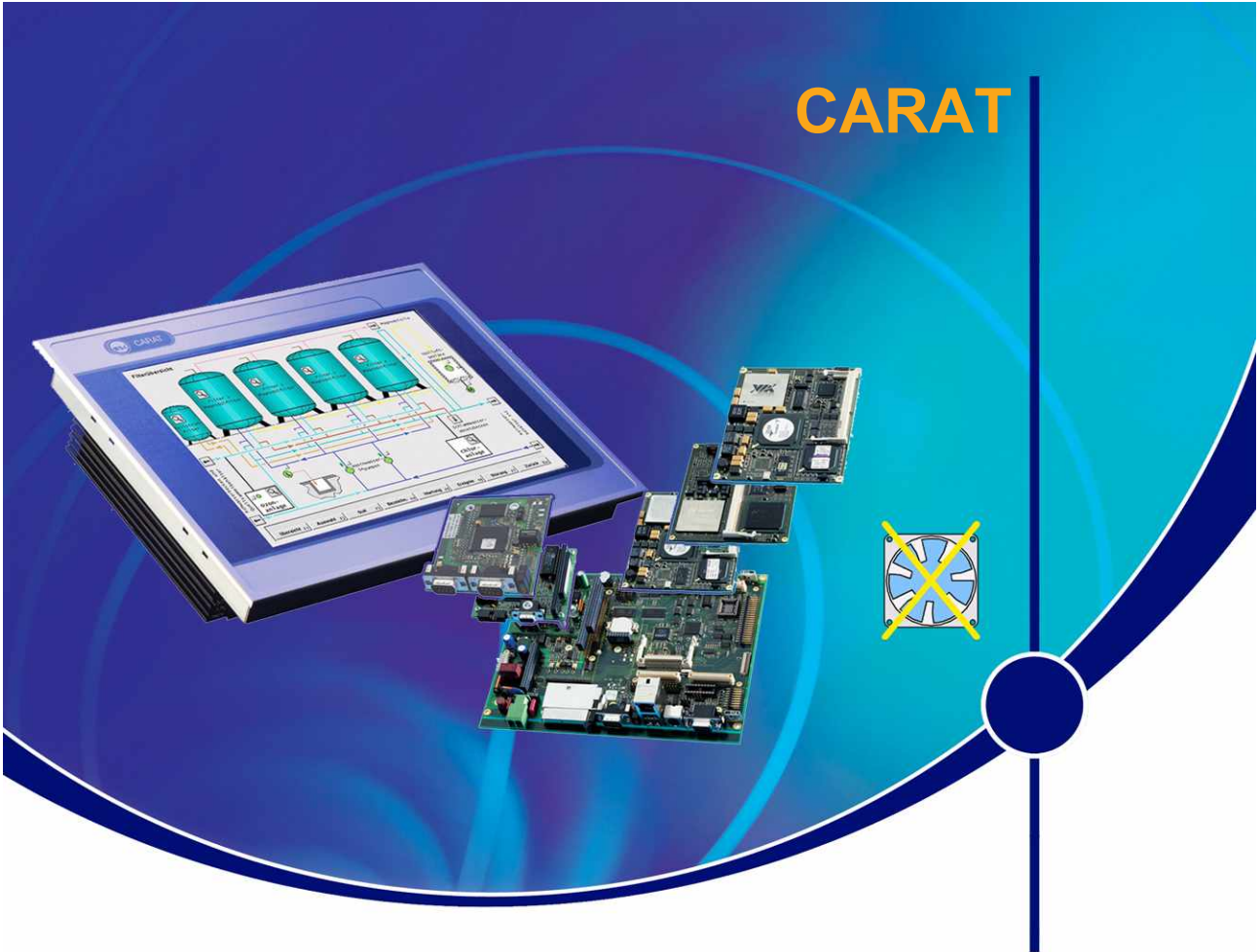


CARAT



Comprehensive solution of a panel – ETX compatible platform –

The operating terminals of the CARAT series are comprehensive solutions based on embedded operating systems. So the CARAT is suitable to control, operate and observe both small machines and complex plants.

Hardware and operating system are adjusted with each other optimally.

The systems are compiled and configured as required by the customers.

Because of fanless and cableless system design, CARAT is interference-free and maintenance-free.

With the selection of the display size and the processor power the system performance can be adapted extremely well to the respective setting of a task.

All important communication interfaces for the linkage into current control conceptions are integrated in the CARAT.

Both the fieldbus standards as PROFIBUS and CANopen and the networking with Ethernet belong to them.



Embedded design



Technical Data

Cooling	Fanless	
Protection class	IP 65 at front	
Front panel	<ul style="list-style-type: none"> • Seamlessly sealed front panel protects reliably against ingress of dust, dirt and spray water • Touchscreen resistive-analogue is integrated • Specific customized design is possible 	
Display	8.4" TFT (VGA), 12.1" TFT (SVGA), 15" TFT (XGA)	
Baseboard / CPU	<p>Base board for integration of CPUs on standardized ETX form factor</p> <ul style="list-style-type: none"> • Celeron M, 600 / 1000 MHz • 1 MB SRAM with back-up battery for remanent data • 3 status LEDs, freely configurable • Power-Fail detection, buffer capacitor option • CF socket external free for user data 256 MB / 512 MB / 1 GB / 2 GB • Watchdog for system safety • Diagnostic tool and bootloader software 	
Memory	256 MB / 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	Max.	75 W
	Typ. ¹⁾	18 W (8.4"), 30 W (12.1"), 44 W (15")
	¹⁾ These information correspond to the basic version.	
Ambient temperature	+0 °C to +45 °C	
EMC	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	Technical drawings are available as a supplement at www.msc-tuttlingen.de .	
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	