



IMPULSES FOR AUTOMATION

Ventura and Ventura touch

Ventura, the PC-based, variable-performance control platform

- Scalable processor capacity
- No rotating storage hardware
- No fan
- 24 V power supply
- Expansion slot
- Interfaces: 2 x USB, 2 x Ethernet, 2 x COM, CANopen, AS-Interface
- 2 CF card drives or hard disk
- DVI display adapter port
- Fast booting
- Operating systems:
Microsoft® Windows® CE .NET or
Microsoft® Windows® XP embedded



System description

Ventura and Ventura touch

The **Ventura** control platform is scalable in both price and performance. Its modular design and standard on-board interfaces support flexible control solutions providing for future developments in automation. Key characteristics are the unit's passive cooling, fanless operation and CF cards used as mass storage media.

The mechanical and electrical design of the **Ventura** control platform ensures reliable control and actuation of machines under tough everyday conditions of the industry and warrants that all data is safe even in the event of power failures.

It is shock-proof and vibration-proof, features low-voltage protection and EMC compliance plus compatibility with temperatures up to 50 °Celsius. Its scalability is specifically underlined by the integration of ETX modules up to Pentium M-class processors – units with 100, 266, 733 and 1000 MHz clocks are currently available. They are the logic core of add-on peripherals such as a plug-type hardware PLC, various I/O modules and other tailored modules. Standard ports to AS-i, CANopen, DVI, Ethernet, COM and USB let **Ventura** satisfy all communication needs.

Two compact flash drives allow application and machine data to be separated from the operating system. The **Ventura** platform installs or mounts either in a switching cabinet or immediately behind **Ventura touch**.

Ventura touch, the new control and display monitor, features a high-quality and long-life TFT display available in sizes 6.5", 10.4" and 12.1". At the front it has IP65 protection.

Software

Operators can rest on the support of CoDeSys, the control and programming system with real-time functionality in compliance with standard IEC 61131-3 plus CoDeSys SP, the cross-platform PLC runtime system in conjunction with the operating systems **Microsoft® Windows® CE** and **Microsoft® Windows® XP embedded**.

CoDeSys is one of the most powerful IEC 61131-3 controller programming tools available for Windows® environments. All five programming languages

of the standard are supported. CoDeSys generates native machine code for all commercially available processors. Moreover, CoDeSys combines the capabilities of high-level programming languages such as C or Pascal with the simple handling and the functionality of a PLC programming system.

Apart from the programming system, the package also contains a manual and an online help engine. Operators can choose from German, English and French variants.

CoDeSys components

Editors allow the programming of instruction lists, sequential function charts, function diagrams, Structured Text, ladder diagrams, and function diagrams in free graphics mode.



Other benefits

- Comprehensive offline simulation
- Integrated visualisation
- Integrated bus configurators for CANopen, PROFIBUS and AS-i
- Integrated motion functions

Technical data Ventura

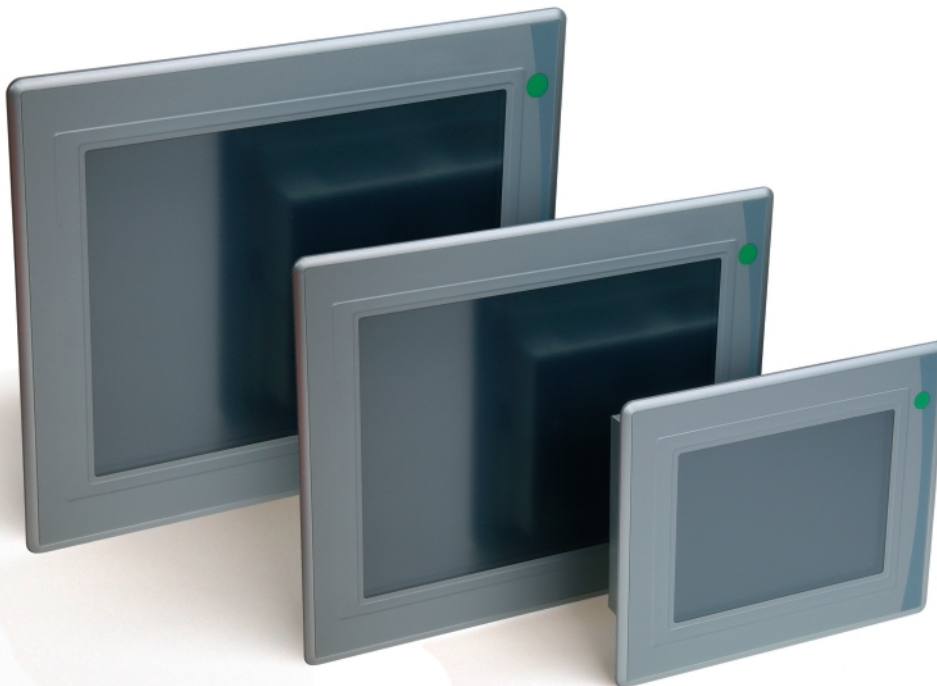
	Ventura 100	Ventura 300	Ventura 700/1000
Processor	100 MHz STPC eLite	266 MHz Geode	733 MHz/1 GHz ULV Celeron
Cooling	Passive		
Protection	IP20		
Status indication by LED	Run, Stop, Error (SPS), Bus (CANopen), DVI, USB		
Reset button	Located at the front		
Housing	Stainless steel		
Main memory	128 Mbyte SD-Ram		
Compact flash card	Types I and II, boot-enabled, 1 x internal	Types I and II, boot-enabled, 1 x front, 1 x internal	
Serial port	COM1	COM1, COM2	
Ethernet	10/100 Base-T with RJ45 socket	2 x 10/100 Base-T with RJ45 socket	
USB	2 x USB (0.5 A)		
LCD adapter	none	DVI/VGA	
Keyboard/Mouse	PS/2		
CANopen	9-pin SUB-D, max. 1 Mbit/s		
Power supply	24 V DC (18 ... 28 V DC)		
Ambient temperature	0 ... 50 °C		
Dimensions (H x W x D)	190 x 55 x 130 mm		190 x 77 x 130 mm
Operating system	Microsoft® Windows® CE .NET or Microsoft® Windows® XP embedded		



Additional technical data for Ventura+ and Ventura FB *

	Ventura+	Ventura FB
Function	Industry-standrad PC w/ integrated PLC hardware	Industry-standard PC w/ intergrated interface board
Processor	XC 167	
Status indication by LED	Run, Stop, Error (SPS), Bus1, Bus2, 5 I/Os	
Reset button	Located at the front	
Interfaces	CANopen max. 1 Mbit/s, PROFIBUS DP max. 12 Mbit/s, RS232	
Inputs/outputs	4 inputs/outputs, 1 input Outputs: 0.5 A Inputs 0.5 ms rising delay or counter inputs ABRef and AB (10 kHz)	
Software	CoDeSys	none
Power supply	24 V DC (18 ... 28 V DC)	
Ambient temperature	0 ... 50 °C	
Dimensions (H x W x D)	190 x 85 x 130 mm	

* Basic data see Technical data Ventura



Technical data Ventura touch

	Ventura touch 6,5"	Ventura touch 10,4"	Ventura touch 12,1"	Ventura touch 12,1" XGA
TFT display size	6,5"	10,4"	12,1"	
Display adapter	DVI			
Brightness (typ.)	400 cd/m ²		350 cd/m ²	
Life of backlighting	50,000 h			
Resolution	640 x 480		800 x 600	1024 x 768
Touch	4-wire analogue resistive			
Touch port	USB or V.24			
Protection (front)	IP65			
Power supply	24 V DC (18 ... 28 V DC)			
Ambient temperature	0 ... 50 °C			
Dimensions (H x W x D)	200 x 165 x 50 mm	280 x 232 x 50 mm	320 x 265 x 50 mm	

Order data

Part number	Element	Description
639.100.00.00.10	Ventura 300 CE	AMD Geode GX1 266 MHz, 128 MByte RAM, DVI, Ethernet, CANopen, RS232, 24 V power pack, operating system Microsoft® Windows® CE .NET on 128 MB CF card
639.100.00.00.20	Ventura 300 CE+CO	AMD Geode GX1 266 MHz, 128 MByte RAM, DVI, Ethernet, CANopen, RS232, 24 V power pack, CoDeSys Runtime operating system Microsoft® Windows® CE .NET on 128 MB CF card
639.100.00.00.30	Ventura 300 CE+CO +TAR	AMD Geode GX1 266 MHz, 128 MByte RAM, DVI, Ethernet, CANopen, RS232, 24 V power pack, operating system Microsoft® Windows® CE .NET on 128 MB CF card, CoDeSys Runtime, target visualisation
639.100.01.22.00	Ventura 300+ XP	AMD Geode GX1 266 MHz, 128 MByte RAM, DVI, Ethernet, CANopen, RS232, 24 V power pack, Slot-SPS w/ PROFIBUS, CANopen, RS232, 24 V DC power pack, runtime system 5 I/O, operating system Microsoft® Windows® XP embedded on 512 MB CF card
639.100.02.00.30	Ventura 300FB CE+CO +TAR	AMD Geode GX1 266 MHz, 128 MByte RAM, DVI, Ethernet, CANopen, RS232, 24 V power pack, field bus board w/ PROFIBUS, CANopen, RS232, 24 V DC power pack, 5 I/O, operating system Microsoft® Windows® CE .NET, CoDeSys Runtime, target visualisation
639.300.00	Ventura touch 6,5"	DVI adapter, USB/RS232 touch, 24 V DC power pack, 6,5" TFT w/ touch
639.310.00	Ventura touch 10,4"	DVI adapter, USB/RS232 touch, 24 V DC power pack 10,4" TFT (VGA resolution) w/ touch
639.320.00	Ventura touch 12,1"	DVI adapter, USB/RS232 touch, 24 V DC power pack 12,1" TFT (SVGA resolution) w/ touch
639.330.00	Ventura touch 12,1" XGA	DVI adapter, USB/RS232 touch, 24 V DC power pack 12,1" TFT (XGA resolution) w/ touch



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