



5

Human Machine Interface

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Human Machine Interface

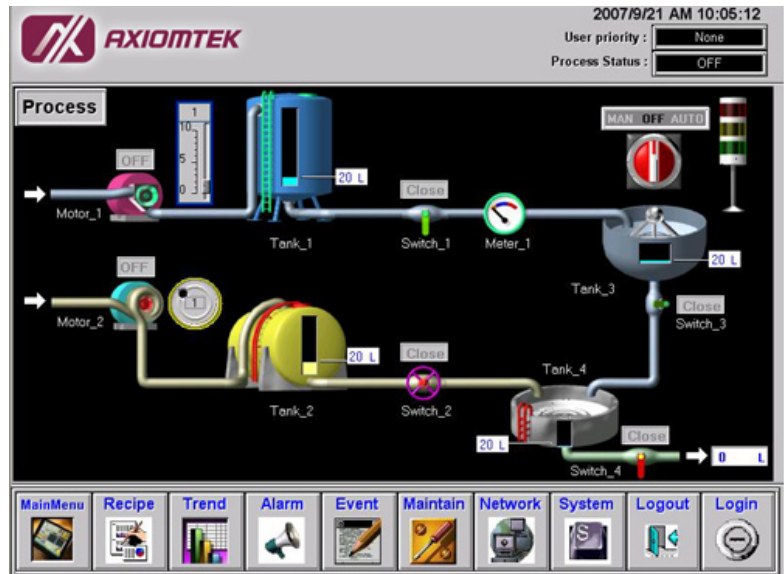
Web-based SCADA Software - WinPC32 Pro (V1.07)

Web-enabled database based HMI software

Anewtech WinPC32 Pro is a web-enabled HMI (human machine interface) software which is a Windows based monitoring solution to Windows® CE operating system platforms.

Its interface facilitates developing GUI, implementing logic and flow control, and applying commonly used components, such as trend, historical trend, alarm log and security.

WinPC32 Pro (V1.07) user-friendly and liable to other major HMI software in this industry. The main features are as follows:



Complete PLC drivers & OPC client supported

Drivers library has the communication drivers that cover all major brands, such as Rockwell, Siemens, GE Fanuc, Modicon, Omron, Mitsubishi, Panasonic and Fuji PLCs, DCS, temperature controller, and so on. Besides, the WinPC32 Pro is built in OPC (OLE for Process Control) for clients' linking to equipments with the OPC server type of communication driver.

Remote monitoring by Web browser

The HMI software is Wweb browser enabled such that operators may monitor, upload and analyze the status of the entire application through internet.

Standard Windows ODBC/SQL database

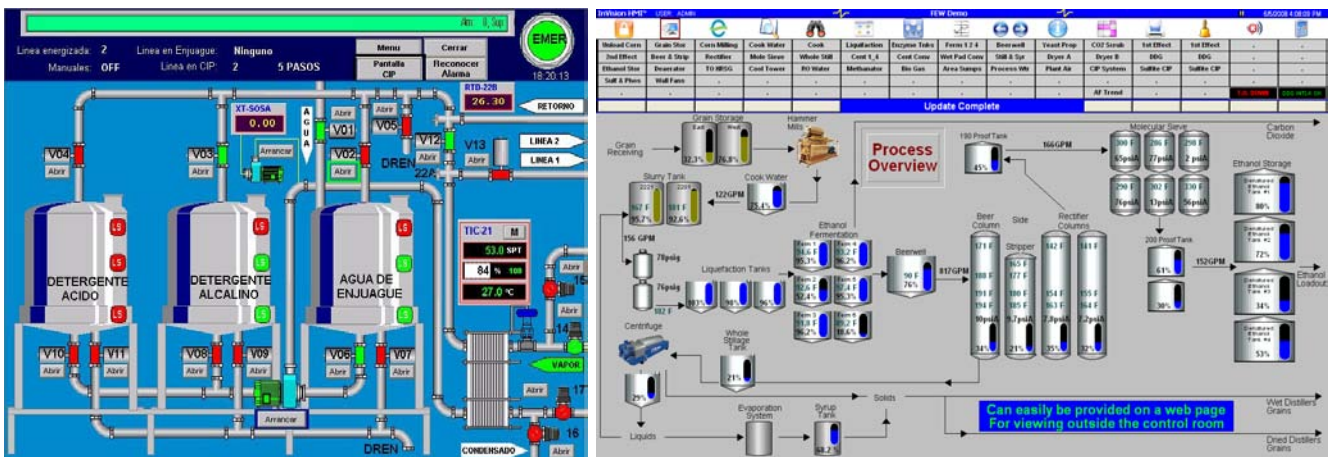
It is capable of linking to remote, plant level database to download recipes or upload process records and logs.

Comprehensive graphical components

The HMI software, WinPC32 Pro, provides users with a convenient way to build own application programs. It allows user to import GIF, flash and Active-X graphic objects and even composes their own custom components as a standard one for future use.

Alarm, security and scheduled HTML report

The WinPC32 Pro offers alarm, security and scheduled HTML report to make alerts, log incidents, manage security and compose/print reports.



Human Machine Interface

Panel PC with HMI Software (VTA Series)



Model	Anewtech VTA-7570T	Anewtech VTA-7840T	Anewtech VTA-7100T	Anewtech VTA7120T
Display	5.7" QVGA TFT LCD	8.4" SVGA TFT LCD	10.4" SVGA TFT LCD	12.1" SVGA TFT LCD
CPU	AMD LX800 500 MHz	AMD LX800 500 MHz	AMD LX800 500 MHz	AMD LX800 500 MHz
Chipset	AMD LX+CS5536AD	AMD LX+CS5536AD	AMD LX+CS5536AD	AMD LX+CS5536AD
System Memory	1 x DDR SODIMM min. 256MB max. up to 1GB	1 x DDR SODIMM min. 256MB max. up to 1GB	1 x DDR SODIMM min. 256MB max. up to 1GB	1 x DDR SODIMM min. 256MB max. up to 1GB
I/O	1 x RS-232 (COM 2) 1 x RS-232/422/485 (COM 1) 2 x USB 2.0 1 x 10/100Mbps Ethernet 1 x Audio (Line-out)	1 x RS-232 (COM 2) 1 x RS-232/422/485 (COM 1) 2 x USB 2.0 1 x 10/100Mbps Ethernet	1 x RS-232 (COM 2) 1 x RS-232/422/485 (COM 1) 2 x USB 2.0 1 x 10/100Mbps Ethernet 1 x Audio (Line-out) 1 x VGA	1 x RS-232 (COM 2) 1 x RS-232/422/485 (COM 1) 2 x USB 2.0 1 x 10/100Mbps Ethernet 1 x Audio (Line-out) 1 x VGA
Storage	1 x CompactFlash™	1 x CompactFlash™	1 x CompactFlash™	1 x CompactFlash™
FDD	N/A	N/A	N/A	N/A
CD-ROM	N/A	N/A	N/A	N/A
Expansion Interface	1 x MiniPCI slot 1 x PC/104	1 x MiniPCI slot	1 x MiniPCI slot	1 x MiniPCI slot
Touch Screen	5-wire Resistive type	5-wire Resistive type	5-wire Resistive type	5-wire Resistive type
Operating Ssystem	WinCE.NET	WinCE.NET	WinCE.NET	WinCE.NET
Power Supply	24VDC , 55W	24VDC , 55W	24VDC , 55W	24VDC , 55W
Watchdog Timer	255 levels, 0~255 sec.	255 levels, 0~255 sec.	255 levels, 0~255 sec.	255 levels, 0~255 sec.
Dimension (WxDxH)	208.5 x 59.5 x 167.3 mm	251 x 44.6 x 205 mm	293 x 44.6 x 236 mm	327.5 x 51.5 x 262 mm
Weight (net/ gross)	1.3kg/ 2kg	1.3kg/ 2.25kg	1.6kg/ 2.8kg	2.24kg/ 3.67kg
Operating Temperature	0° ~ 45°C	0° ~ 45°C	0° ~ 45°C	0° ~ 45°C
Certification	CE	CE	CE	CE

Open system - Connect PLC & PC-based controller

Anewtech VTA-7000 series can work with various brands of PLC's and can operate with PC-based controller. Users can connect remote PC-based modules as a remote monitoring system to significantly reduce cost and time.

Microsoft Windows®CE and CISC-based CPU supported

Anewtech VTA-7000 series supports Microsoft Windows® CE which allows customers to compose user program upon different applications by using Microsoft VB/VC#.net. In the meanwhile, the powerful CISC CPU platform enables the system to connect many control devices and execute a large number of software programs simultaneously.

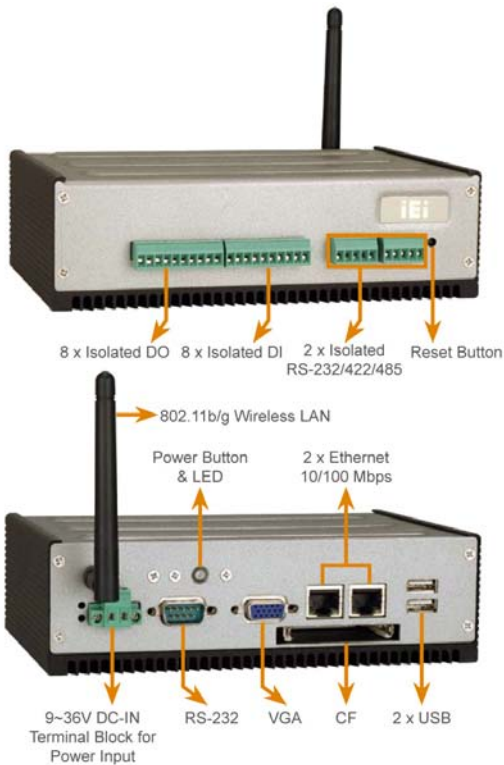
Powerful hardware expansion capability

Anewtech VTA-7000 has provided users with many different I/O interfaces to enable easy expandability that the RS-485 port can be connected to PLC, LAN port to remote PC-based module, PC/104 slot with local A/D IO control, and Mini PCI slot for installing WLAN/GPRS/GSM wireless modules.

- 1 Industrial Computer
- 2 Compact PCI
- 3 Embedded Computer
- 4 Panel PC/ LCD Monitor
- 5 Human Machine Interface
- 6 Digital Advertising
- 7 Serial & Wireless Connectivity
- 8 Digital Video Surveillance
- 9 Network Security Appliance
- 10 Data Acquisition & Control
- 11 Industrial RFID
- 12 Industrial Ethernet Switch
- 13 Medical PC
- 14 Power Supply
- 15 Accessories

Human Machine Interface

Universal Controller



Anewtech VITO-1000

Advanced RISC-based Controller with Marvell® Xscale PXA270 520 MHz, 1 x Wireless LAN, 2 x LAN, 3 x COM, 2 x USB, 1 x CF Slot, 8DI / 8DO

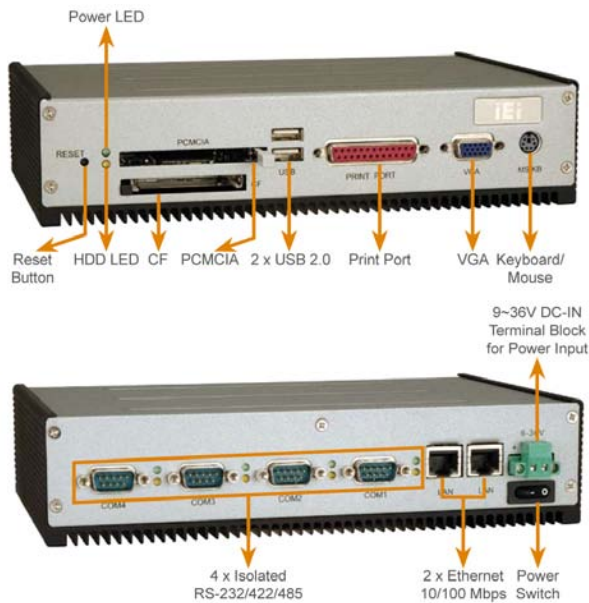
- Marvell® XScale PXA-270 520 MHz processor
- 128 MB SDRAM on-board
- One RS-232/422/485 (9-pin D-SUB) and two isolated RS-232/422/485 (5-pin screw terminal) ports with automatic flow control
- Two 10/100 Mbps Ethernet RJ-45 ports and two USB ports
- One CompactFlash™
- Windows® CE5.0 ready platform
- Included remote display for easy configuration
- Provides Modbus RTU/ASCII to Modbus TCP Gateway utilities
- Supports Modbus/RTU and Modbus/TCP devices
- Support 8DI / 8DO
- Support 802.11 b/g wireless LAN
- DIN-Rail and wall mounting options



System hardware	CPU	Marvell® Xscale PXA270 520 MHz
	Memory socket	On-board SDRAM
	Memory size	128 MB
	Keyboard/mouse	-
	Expansion slot	1 x CF slot
	PC/104	1 x PC/104
	Printer port	-
	Storage Interface	1 x CF type II slot
	Storage	256 MB CF card
	VGA	15-pin D-SUB VGA output supports up to 1280 x 1024
Audio	-	
I/O & communication	Watchdog timer	Programmable
	Wireless LAN	802.11 b/g Wireless LAN
	LAN	2 x Ethernet (10/100Base-T with RJ-45 port)
	Serial port	1 x RS-232/422/485 (9-pin D-SUB connectors), 2 x Isolated RS-232/422/485 with 5-pin screw terminal automatic RS-485 data flow control
Channel	USB port	2 x USB 2.0
	Digital input	8-channel isolated DI
Channel hardware	Digital output	8-channel isolated DO
	Digital input signal	DI ch. 2,000 VDC isolation, 2,000 VDC ESD protection and 70 VDC overvoltage protection 0 ~ 50 VDC input range and 10 kHz speed Digital input levels with dry contact: Logic level 0: Close to GND, Logic level 1: Open Digital input levels with wet contact: Logic level 0: +2 V max, Logic level 1: +4 V ~ +50 V
Power	Digital output signal	DO ch 2000 VDC isolation and 200 mA max/ch sink current keeps. Keeps output status after system hot reset. 5~30 VDC output range and 10 KHz.
	Power input	9~36 VDC (e.g. +24 V@0.75A) (min.18 W), ATX
Environmental	Power consumption	15 W (typical)
	Operation temperature	0 ~ 60°C
	Humidity	5% ~ 95% RH without condensation
	Vibration	5~17 Hz, 0.1" double amplitude displacement, 17~640 Hz, 1.5 G acceleration peak to peak
General	Shock	10 G acceleration peak to peak. (11ms)
	Dimensions (WxDxH)	202 mm x 119.5 mm x 56.6 mm
	Construction	Aluminum Extrusion, heavy-duty steel chassis
	Mounting	Wall mount, DIN-rail mount
	Weight	0.88 kg
OS support	Windows® CE 5.0 / Linux (OEM/ODM)	

Human Machine Interface

Universal Controller



Anewtech VITO-2100/2101/2102/2103/2104

Compact Data Server

with ULV Intel® Celeron® M 1 GHz , 2 x LAN , 4 x COM , 2 x USB, 1 x LPT, 1 x PC Card Slot , 1x CF Slot , I/O support DI/DO/AI and CAN Bus

- ULV Intel® Celeron® M 1GHz zero cache processor
- Four isolated RS-232/422/485 (DB-9 connectors) ports with automatic flow control
- Two 10/100 Mbps Ethernet RJ-45 ports and two USB ports
- One PC card slot support PCMCIA and one CompactFlash™ slot
- One parallel port
- Windows® XP Embedded ready platform
- Supports remote display for easy configuration
- Provides Modbus RTU/ASCII to Modbus TCP Gateway utilities
- Supports Modbus/RTU and Modbus/TCP devices
- Supports DI/DO/AI and CAN Bus options



System hardware	CPU	ULV Intel® Celeron® M 1 GHz / zero cache				
	System chipsets	Intel® 852GM + ICH4				
	Memory socket	1 x 200-pin 1 GB (max.) 266/200 MHz DDR SDRAM SO-DIMM				
	Memory size	512 MB				
	Keyboard/mouse	1 x PS/2				
	Expansion slot	1 x PC card slot support PCMCIA, 1 x CompactFlash™ slot				
	PC/104	1 x PC/104				
	Printer port	1 x LPT				
	Storage interface	1 x CF type II slot, 1 x IDE				
	Storage	1 GB CF card or 2.5"/1.8" 40 G HD (optional)				
	VGA	1 x 15-pin D-SUB VGA output supports up to 1600 x 1200				
	Audio	-				
	Watchdog timer	Programmable				
	I/O & communication	LAN	2 x Ethernet (10/100Base-T with RJ-45 port)			
Serial port		4 x Isolated RS-232/422/485 with 9-pin D-SUB connectors automatic RS-485 data flow control				
USB port		2 x USB 2.0				
Channel	Model name	Anewtech VITO-2100	Anewtech VITO-2101	Anewtech VITO-2102	Anewtech VITO-2103	Anewtech VITO-2104
	Communication interface	-	2-channel isolated CAN Bus	-	-	2-channel isolated CAN Bus
	Digital input	-	4-channel isolated DI	8-channel isolated DI (2 x Counter)	4-channel isolated DI	4-channel isolated DI
	Digital output	-	4-channel isolated DO	8-channel isolated DO (2 x Timer)	4-channel isolated DO	4-channel isolated DO
	Analog input	-	-	-	2-channel AI	2-channel AI
Channel hardware	Digital input signal	DI ch. 2,000 VDC isolation, 2,000 VDC ESD protection and 70 VDC overvoltage protection 0 ~ 50 VDC input range and 10 kHz speed Digital input levels with dry contact: Logic level 0: Close to GND, Logic level 1: Open Digital input levels with wet contact: Logic level 0: +2 V max, Logic level 1: +4 V ~ +50V				
	Digital output signal	DO ch 2000 VDC isolation and 200mA max/ch sink current keeps. Keeps output status after system hot reset. 5~30 VDC output range and 10kHz.				
	Counter / timer	2x 16-bit: - counter source: DI6 & DI7 , - Pulse output: DO6 & DO7 , Can be cascaded as one 32-bit counter/timer, Down counting, preset counting value, interrupt handling, Timer - time base: 100/10/1 kHz, 100 Hz				
	Analog input signal	2 ch. input type: Thermocouple: JKTE type Input range : ±5V, ±2.5V, ±0~2.5V, ±0~5V Supports T/C types: J, K, T, E				
	CAN communication interface	Compatible with CAN specifications 2.0 3000 VDC isolated by photo coupler for dual ports.				
Power	Power input	9~36 VDC (e.g +24 V@1.25 A) (min.30 W), AT		9~36 VDC (e.g +24 V@1.5 A) (min.36 W), AT		
	Power consumption	20 W		25 W		
	Operation temperature	0 ~ 50°C				
Environmental	Humidity	5% ~ 95% RH without condensation				
	Vibration	5~17 Hz, 0.1" double amplitude displacement, 17~640 Hz, 1.5 G acceleration peak to peak				
	Shock	10 G acceleration peak to peak. (11ms)				
General	Dimensions (WxDxH)	253.2 mm x 150.3 mm x 56.6 mm				
	Construction	Aluminum extrusion, heavy-duty steel chassis				
	Mounting	wall mount, DIN-Rail mount				
	Weight	1.76 kg		1.84 kg		
OS support	Windows® XP Embedded / Linux (OEM/ODM)					

1

Industrial Computer

2

Compact PCI

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Embedded Computer

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Panel PC/ LCD Monitor

5

Human Machine Interface

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Digital Advertising

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Serial & Wireless Connectivity

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Digital Video Surveillance

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Network Security Appliance

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Data Acquisition & Control

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Industrial RFID

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Industrial Ethernet Switch

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Medical PC

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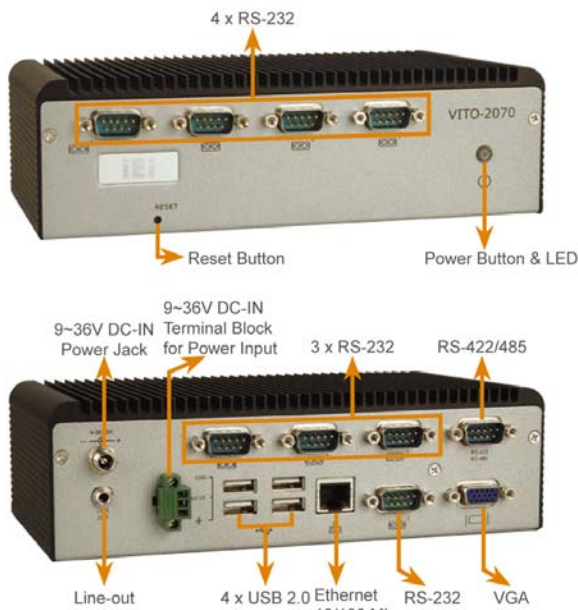
Power Supply

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Accessories

Human Machine Interface

Universal Controller



Anewtech VITO-2070/2071/2072/2073/2074

Multiport Data Collector

with AMD® Geode™ LX 800 500 MHz, 1 x LAN, 8 x COM, 4 x USB, I/O support DI/DO/AI and CAN Bus

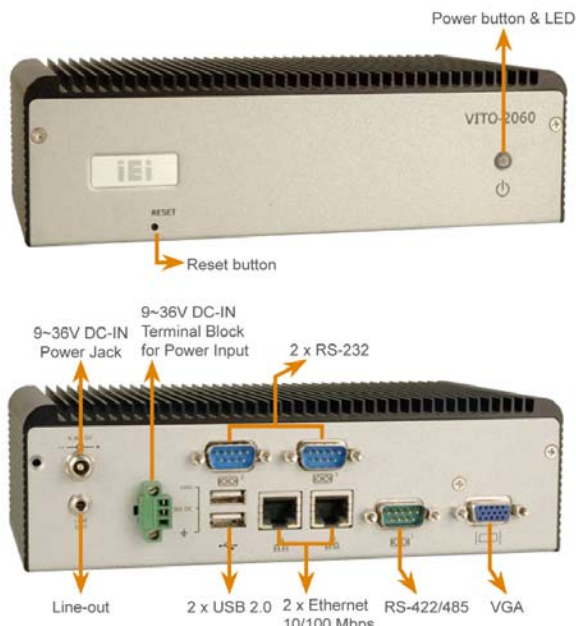
- AMD® Geode™ LX 800 500 MHz processor
- Eight RS-232 (9-pin D-SUB), one RS-422/485 (9-pin D-SUB) port with automatic flow control
- One 10/100 Mbps Ethernet RJ-45 port and four USB ports
- Windows® CE 5.0, Windows® XP Embedded ready platform
- Audio with Line out
- Included remote display for easy configuration
- Provides Modbus RTU/ASCII to Modbus TCP Gateway utilities
- Supports Modbus/RTU and Modbus/TCP devices
- Support DI/DO/AI and CAN Bus options
- Power adapter with lock screw or bare wire connector type



System hardware	CPU	AMD® Geode™ LX800 500 MHz				
	System chipsets	AMD® Geode LX800 + AMD® CS5536				
	Memory socket	1 x 200-pin 1 GB (max.) 400/333 MHz DDR SDRAM SO-DIMM				
	Memory size	256 MB				
	Keyboard/mouse	-				
	Expansion slot	-				
	PC/104	1 x PC/104				
	Printer port	-				
	Storage interface	1 x CF type II slot				
	Storage	256 M/1 G CF card				
	VGA	1 x 15-pin D-SUB VGA output supports up to 1600 x 1200				
	Audio	1 x line out				
	Watchdog timer	Programmable				
	I/O & communications	LAN	1 x Ethernet (10/100Base-T with RJ-45 port)			
Serial port		Windows® XP Embedded : 7 x RS-232 (9-pin D-SUB), 1 x RS-422/485 with 9-pin D-SUB connector automatic RS-485 data flow control Windows® CE 5.0 : 3 x RS-232 (9-pin D-SUB), 1 x RS-422/485 with 9-pin D-SUB connector automatic RS-485 data flow control				
USB port		4 x USB 2.0				
Channel	Model name	Anewtech VITO-2070	Anewtech VITO-2071	Anewtech VITO-2072	Anewtech VITO-2073	Anewtech VITO-2074
	Communication interface	-	2-channel isolated CAN Bus	-	-	2-channel isolated CAN Bus
	Digital input	-	4-channel isolated DI	8-channel isolated DI (2 x Counter)	4-channel isolated DI	4-channel isolated DI
	Digital output	-	4-channel isolated DO	8-channel isolated DO (2 x Timer)	4-channel isolated DO	4-channel isolated DO
	Analog input	-	-	-	2-channel AI	2-channel AI
Channel Hardware	Digital input signal	DI ch. 2,000 VDC isolation, 2,000 VDC ESD protection and 70 VDC overvoltage protection 0 ~ 50 VDC input range and 10 kHz speed Digital input levels with dry contact: Logic level 0: Close to GND, Logic level 1: Open Digital input levels with wet contact: Logic level 0: +2 V max, Logic level 1: +4 V ~ +50 V				
	Digital output signal	DO ch 2000 VDC isolation and 200mA max/ch sink current keeps. Keeps output status after system hot reset. 5~30 VDC output range and 10kHz.				
	Counter / timer	2x 16-bit: - counter source: DI6 & DI7 , - Pulse output: DO6 & DO7 , Can be cascaded as one 32-bit counter/timer, Down counting, preset counting value, interrupt handling, Timer - time base: 100/10/1 kHz, 100 Hz				
	Analog input signal	2 ch. input type: Thermocouple: JKTE type Input range : ±5 V , ±2.5 V , 0~2.5 V , 0~5 V Supports T/C types: J, K, T, E				
	CAN communication interface	Compatible with CAN specifications 2.0 3000VDC isolated by photo coupler for dual ports.				
Power	Power input	9~36 VDC (e.q +24 V@1A) (min.24 W), ATX	9~36 VDC (e.q +24 V@1.25 A) (min.30 W), ATX			
	Power consumption	15 W	20 W			
Environmental	Operation temperature	0 ~ 60°C				
	Humidity	5% ~ 95% RH without condensation				
	Vibration	5~17 Hz, 0.1" double amplitude displacement, 17~640 Hz, 1.5 G acceleration peak to peak				
General	Shock	10 G acceleration peak to peak. (11ms)				
	Dimensions (WxDxH)	223.6 mm x 110.7 mm x 61.8 mm				
	Construction	Aluminum extrusion, heavy-duty steel chassis				
	Mounting	Wall mount, DIN-rail mount				
	Weight	1.3 kg	1.4 kg			
OS support	Windows® CE 5.0, Windows® XP Embedded / Linux (OEM/ODM)					

Human Machine Interface

Universal Controller



Anewtech VITO-2060/2061/2062/2063/2064

Generic Data Collector

with AMD® Geode™ GX 466 333 MHz, 2 x LAN, 3 x COM, 2 x USB, 1 x Line out, I/O support DI/DO/AI and CAN Bus

- AMD® x86 grade 333 MHz AMD® Geode™ processor
- Two RS-232 (9-pin D-SUB), and one RS-422/485 (9-pin D-SUB port with automatic flow control)
- Two 10/100 Mbps Ethernet RJ-45 ports and two USB ports
- Windows® CE 5.0, Windows® XP Embedded ready platform
- Audio with Line out
- Included remote display for easy configuration
- Provides Modbus RTU/ASCII to Modbus TCP Gateway utilities
- Supports Modbus/RTU and Modbus/TCP devices
- Support DI/DO/AI and CAN Bus options
- Power adapter with lock screw or bare wire connector type



System hardware	CPU	AMD® Geode™ GX 466 333 MHz				
	System chipsets	AMD® GX466 + CS5536				
	Memory socket	1 x 200-pin 512 MB (max.) 266/200 MHz DDR SDRAM SO-DIMM				
	Memory size	256 MB				
	Keyboard/mouse	-				
	Expansion slot	-				
	PC/104	1 x PC/104				
	Battery backup RTC	Yes				
	Storage interface	1 x CF type II slot				
	Storage	256 M/1 G CF card				
VGA	1 x 15-pin D-SUB VGA output supports up to 1024 x 768					
Audio	1 x line out					
Watchdog timer	Programmable					
I/O & communication	LAN	2 x Ethernet (10/100Base-T with RJ-45 port)				
	Serial port	2 x RS-232 (9-pin D-SUB), 1 x RS-422/485 with 9-pin D-SUB connector automatic RS-485 data flow control				
	USB port	2 x USB 2.0				
Channel	Model name	Anewtech VITO-2060	Anewtech VITO-2061	Anewtech VITO-2062	Anewtech VITO-2063	Anewtech VITO-2064
	Communication interface	-	2-channel isolated CAN Bus	-	-	2-channel isolated CAN Bus
	Digital input	-	4-channel isolated DI	8-channel isolated DI (2 x Counter)	4-channel isolated DI	4-channel isolated DI
	Digital output	-	4-channel isolated DO	8-channel isolated DO (2 x Timer)	4-channel isolated DO	4-channel isolated DO
	Analog input	-	-	-	2-channel AI	2-channel AI
Channel hardware	Digital input signal	DI ch. 2,000 VDC isolation, 2,000 VDC ESD protection and 70 VDC overvoltage protection 0 ~ 50 VDC input range and 10 KHz speed Digital input levels with dry contact: Logic level 0: Close to GND, Logic level 1: Open Digital input levels with wet contact: Logic level 0: +2 V max, Logic level 1: +4 V ~ +50 V				
	Digital output signal	DO ch 2000 VDC isolation and 200mA max/ch sink current keeps. Keeps output status after system hot reset. 5~30 VDC output range and 10 KHz.				
	Counter / timer	2x 16-bit: - counter source: DI6 & DI7, - Pulse output: DO6 & DO7, Can be cascaded as one 32-bit counter/timer, Down counting, preset counting value, interrupt handling, Timer - time base: 100/10/1 KHz, 100 Hz				
	Analog input signal	2 ch. input type: Thermocouple: JKTE type Input range: ±5V, ±2.5V, ±0~2.5V, ±0~5V Supports T/C types: J, K, T, E				
	CAN communication interface	Compatible with CAN specifications 2.0 3000VDC isolated by photo coupler for dual ports.				
Power	Power input	9~36 VDC (e.g. +24V@1A) (min.24W), ATX		9~36 VDC (e.g. +24 V@1.25 A) (Min.30 W), ATX		
	Power consumption	20 W(typical)				
	Operation temperature	0 ~ 60°C				
Environmental	Humidity	5% ~ 95% RH without condensation				
	Vibration	5~17 Hz, 0.1" double amplitude displacement, 17~640 Hz, 1.5 G acceleration peak to peak				
	Shock	10 G acceleration peak to peak. (11ms)				
General	Dimensions (WxDxH)	223.6 mm x 110.7 mm x 61.8 mm				
	Construction	Aluminum extrusion, heavy-duty steel chassis				
	Mounting	Wall mount, DIN-rail mount				
	Weight	1.3 kg		1.4 kg		
	OS support	Windows® CE 5.0, Windows® XP Embedded / Linux (OEM/ODM)				

1
Industrial Computer

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Compact PCI

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Embedded Computer

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Panel PC/ LCD Monitor

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Human Machine Interface

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Digital Advertising

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Serial & Wireless Connectivity

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Digital Video Surveillance

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Network Security Appliance

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Data Acquisition & Control

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Industrial RFID

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Industrial Ethernet Switch

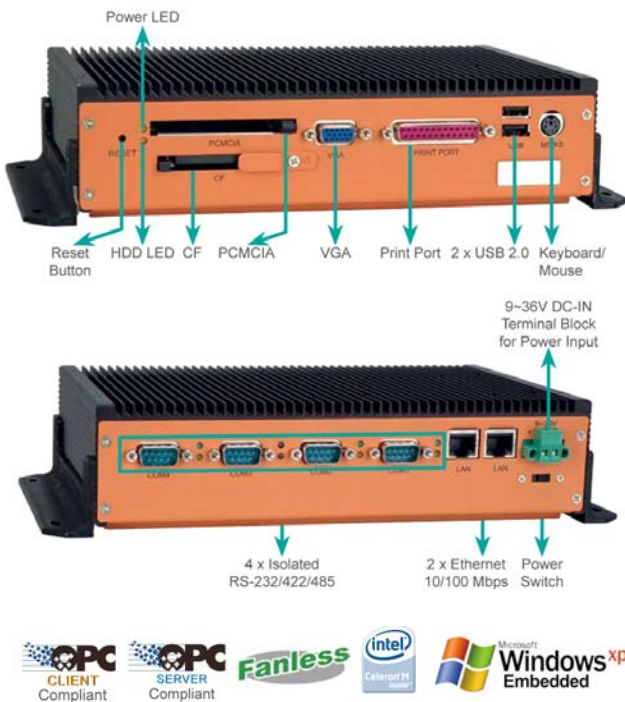
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Medical PC

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Power Supply

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Accessories

Human Machine Interface

Universal Controller



Anewtech VITO-2100-OPC310

Compact Data Server with ULV Intel® Celeron® M 1 GHz, 2 x LAN, 4 x COM, 2 x USB, 1 x LPT, 1 x PC Card Slot, 1 x CF Slot, All-in-One OPC Gateway

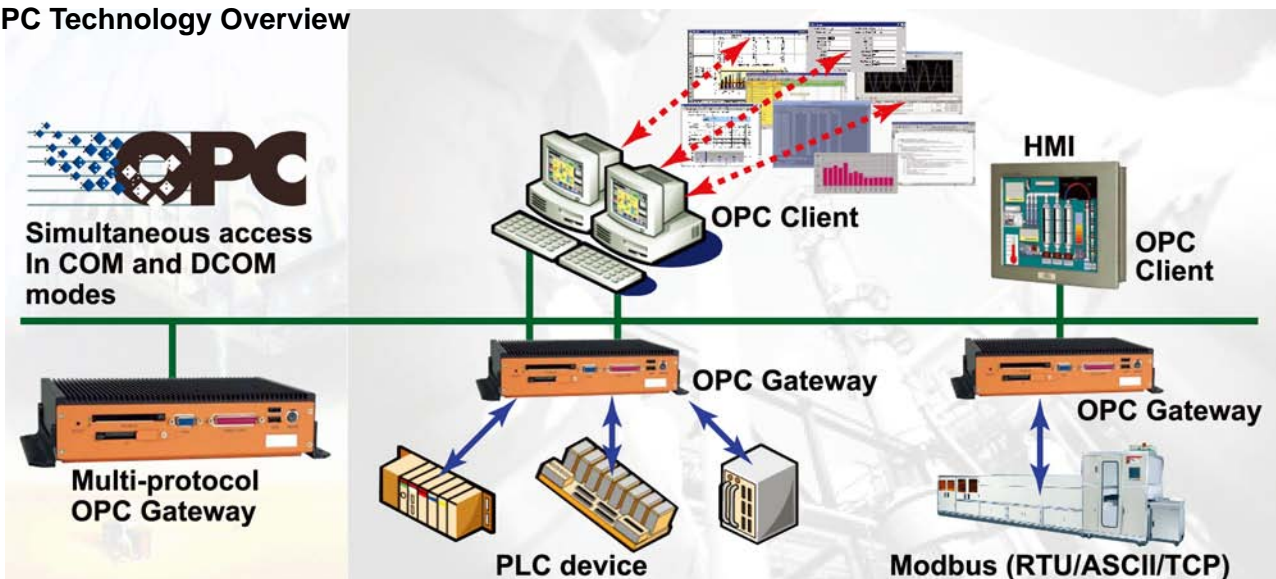
- All-in-one Intelligent System
- ULV Intel® Celeron® M 1GHz zero cache processor
- Four isolated RS-232/422/485 (DB-9 connectors) ports with automatic flow control
- Two 10/100 Mbps Ethernet RJ-45 ports and two USB ports
- One PC card slot support PCMCIA and one CompactFlash™ slot
- One parallel port
- Support IDE HDD
- Windows® XP Embedded ready platform
- Supports remote display for easy configuration
- Multiple built-in protocols enable easy-to-use industrial networking
- Compliant with the latest OPC Data Access 1.0, 2.04, 2.05 and 3.0 standards.
- Compliant with the latest OPC Alarm and Events 1.0 and 1.2 standards
- Compliant with the latest OPC XML Data Access 1.0 standard
- OPC Data Access Server-Alarm & Event Server are integrated in one program

Anewtech VITO-2100-OPC310 OPC gateway has a built-in high performance Intel® Celeron® M CPU, rich networking interfaces, and built-in OPC server support for leading PLC (programmable logic controller) protocols. The VITO-2100-OPC310 gateway is an agent that serves remote OPC clients such as HMI (Human-Machine-Interface), IPC (Industrial PC), and SCADA (Supervisory Control And Data Acquisition) systems.

Traditionally, each software or application developer was required to write a custom interface, or server/driver, to exchange data with hardware field devices like PLC's. The OPC eliminates this requirement by defining a common, high performance interface that permits this work to be done once, and then easily reused by the HMI, SCADA, and control and custom applications.

An OPC Server is a software application that acts as a protocol converter to connect to a device such as a PLC, and translate the data into a standard-based OPC format. Then the OPC client such as an HMI can connect to the OPC Server and use it to read and write device data.

OPC Technology Overview



OPC (OLE for process Control) is the standard communication interface that enables data exchange between client applications (HMI/SCADA, RDBM, control/command) and industrial devices (PLC, I/O blocks, drives, etc), OPC is built using the Microsoft's technologies.