

APPC 1247T Controller

12.1" 4:3 Control Panel Computer



Main Features

- Compliant with industrial IEC61131-3 programming languages (LD/FBD/SFC/IL/ST/CFC)
- Support up to 1024 I/O points
- Build-in HMI APIs for human-machine interface
- Support remote monitor, remote control and maintenance
- Support industrial Ethernet Fieldbus protocols (EtherCAT, Ethernet I/P, PROFINET)
- Support industrial Fieldbus protocols (PROFINET, PROFIBUS, DeviceNET) by optional FBI
- Support Multi-Core, Multi-Tasking powered by Intel® Celeron® Dual Core processor

Product Overview

The 12.1" 4:3 XGA fanless Control Panel Computer APPC 1247T comes with industrial motherboard, flush panel design and can have IP65 front for industrial applications. It supports fieldbus communication in automation market with optional PROFIBUS, PROFINET, DeviceNET, EtherCAT, EtherNet/IP, CANopen fieldbus modules. It also meets PLCopen® specifications and allows easy control programming via SoftPLC and SoftMotion tool kit. It also supports JMobile PC runtime to become HMI.

Controller Specifications

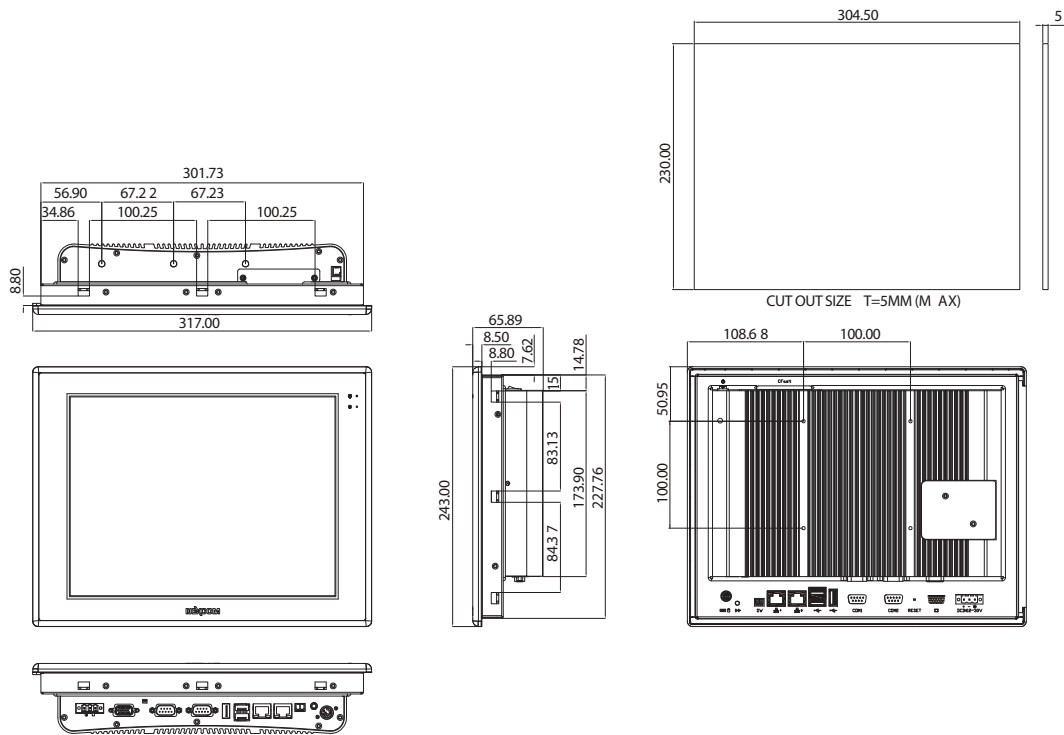
Specification	SoftPLC Controller	SoftMotion Controller
Performance Index	P20	M20
Real-Time	Yes	Yes
Software Protocols	EtherCAT, EtherNet/IP, PROFINET	
Optional Protocols via FBI	PROFIBUS, DeviceNET, CANopen	
IEC61131-3 Language	Ladder Diagram, Function Block Diagram, Instruction List, Structured Text, Sequential Function Chart, Continuous Function Chart	
Cycle Time (ms)	0.5	0.5
Max. I/O Points	1024	1024
Max. Axes	No support	24
Motion Features	No support	GEAR, CAM Function Integrated graphical CAM editor with extensive configuration option
HMI (License Options)	JMobile Suite	TargetVisu

System Specifications

Technical Data	APPC 1247T	Technical Data	APPC 1247T
Panel	12.1", 4:3, XGA 1024 x768	Expansion	2 x mini-PCIe (Optional Module refer to Page 45)
	Luminance: 500cd/m2	Power Requirement	12~30V DC Input
	Contrast ratio: 700	System Enclosure	Plastic front bezel with Metal housing
	LCD color: 16.2M		IP Protection: IP65 front
Touch screen	Viewing angle: 80(U), 80(D), 80(L), 80(R)	Panel Mount/Wall Mount/VESA Mount	Weight: 4Kg
	5-wire USB resistive (flush panel type) Touch light transmission: 80%	Operating Temperature	Ambient with air flow: -5°C to 60°C (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
Processor	Intel® Celeron® processor J1900 quad core 2GHz	Storage Temperature	-20°C to 75°C
Main Memory	DDR3L 1600/1333MHz Memory Maximum up to 8GB		

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Storage Memory	Optional 2.5" SSD or HDD	Relative Humidity	10%~90% relative humidity, non-condensing Limits to be at 90% RH at max 50°C
Persistent Memory	Optional 1MBit NVRAM via NISKNVRAM module	Shock Resistance	20G, half sine, 11ms, IEC60068-27
General Interface	2 x GbE LAN (I210IT), 1 x VGA, 2 x USB 2.0, 1 x USB 3.0, 1 x Line-out, 1 x PS/2 Keyboard & Mouse	Vibration Resistance	Random: 2.2Grms @ 5~500Hz, IEC60068-2-64 Sinusoidal: 2Grms @ 5~500Hz, IEC60068-2-64
Serial Ports	2 x RS232/422/485 w/ 2.5kv isolated	EMC	CE Approval: EN55022 & EN55024, FCC Class A
Control Software	P20: Control RTE / M20 : SoftMotion RTE (Optional)		
Operating System	Win8 32-bit/64-bit, WES8 32-bit/64-bit Win7 32-bit/64-bit, WES732-bit/64-bit, WEC7, Linux Kernel version 3.8.0		

Dimension Drawing



Ordering Information

* HMI Software License Exclude

System	Processor	Main Memory	Storage	Software Package	SoftPLC		HMI (Optional)		
					SoftMotion		JMobile		
					SoftMotion CNC		TargetVisu		
APPC 1247T P20 HMI Controller A0IA1247T00X2	Celeron J1900	4G	32G	• P20 Windows WES7 Package (P/N: 88IA1247T00X2)	v	-	-	v	-
APPC 1247T M20 HMI Controller A0IA1247T00X2		4G	32G	• M20 Windows WES7 Package (P/N: 88IA1247T01X2)	v	v	-	-	v
APPC 1245T Bare-bone System 10IA1245T00X0	Atom E3826	2G	Option	Support • Win8 32-bit/64-bit, WES8 32-bit/64-bit • Win7 32-bit/64-bit, WES732-bit/64-bit • Linux Kernel version 3.8.0	-	-	-	-	-
System	Optional Power Adapter								
Power Adapter	60W 12V/5A w/ 3pin phoenix contact w/o power cord (P/N: 7400060031X00)								