

APPC 1542T Controller

15" 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 15" 4:3 XGA fanless Control Panel Computer APPC 1542T 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

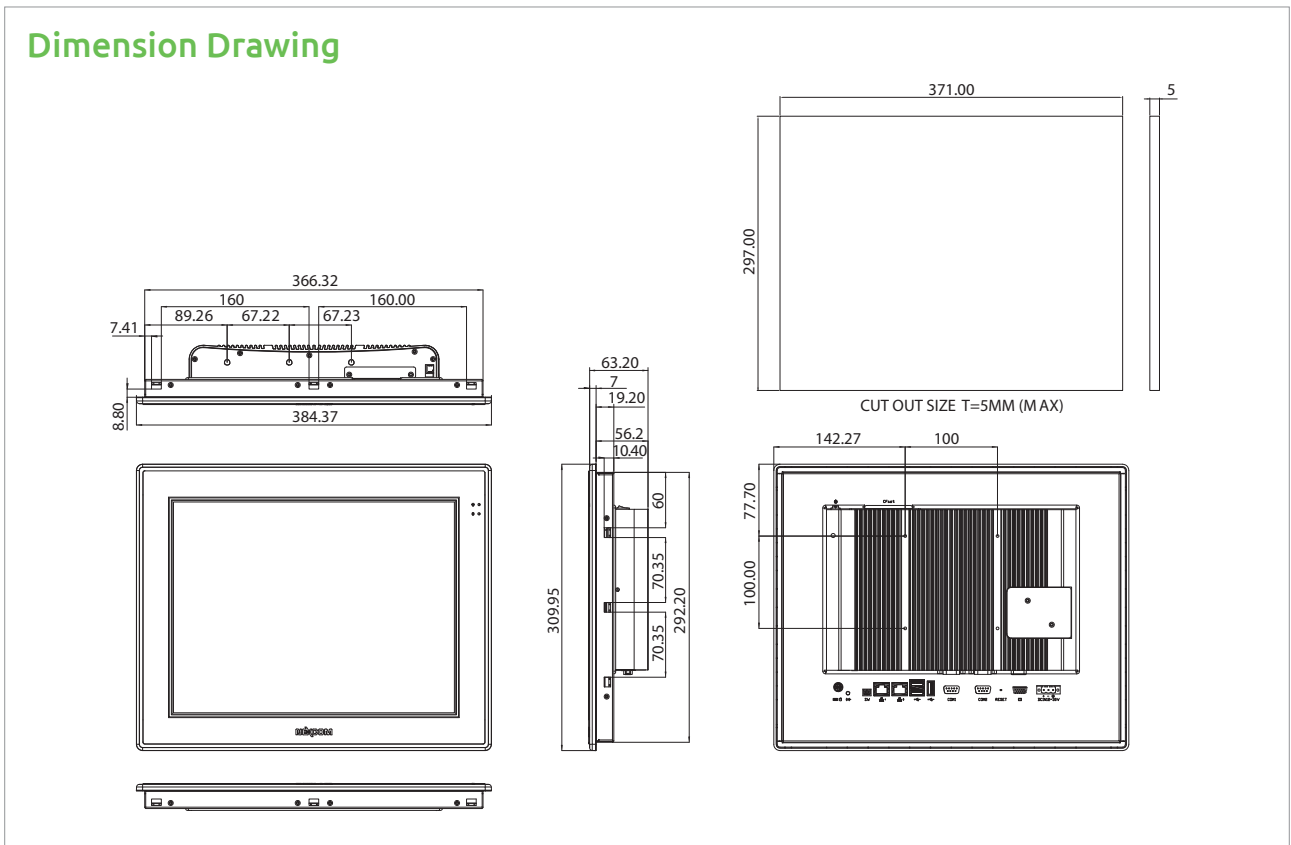
Specification	SoftPLC Controller	SoftMotion Controller	SoftMotion CNC Controller
Performance Index	P20	M20	R20
Real-Time	Yes	Yes	Yes
Software Protocols	EtherCAT, EtherNet/IP, PROFINET		
Optional Protocols via FBI	PROFIBUS, DeviceNET, CANopen		
IEC61131-3 Language	Ladder Diagram, Function Block Diagram, Instruction List, Structured Text, Sequential Function Chart, Continuous Function Chart		
Cycle Time (ms)	0.5	0.5	0.5
Max. I/O Points	1024	1024	1024
Max. Axes	No support	24	24
Control Group	No support	No support	2
Motion Features	No support	GEAR, CAM Function Integrated graphical CAM editor with extensive configuration option	
HMI (License Options)	JMobile Suite	TargetVisu	TargetVisu

System Specifications

Technical Data	APPC 1542T	Technical Data	APPC 1542T
Panel	15", 4:3, XGA 1024 x768	Expansion	2x mini-PCIe (Optional Module refer to Page 45)
	Luminance: 400cd/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
	Viewing angle: 60(U), 80(D), 80(L), 80(R)		Panel Mount/Wall Mount/VESA Mount
Touch screen	5-wire USB resistive (flush panel type)	Dimension: 384.37 x 309.95 x 63.2 mm	
	Touch light transmission: 80%	Weight: 5.1Kg	

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Processor	Intel® Celeron® processor J1900 quad core 2GHz	Operating Temperature	Ambient with air flow: -5°C to 60°C (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
Main Memory	DDR3L 1600/1333MHz Memory Maximum up to 8GB		
Storage Memory	Optional 2.5" SSD or HDD	Storage Temperature	-20°C to 75°C
Persistent Memory	Optional 1MBit NVRAM via NISKNVRAM module	Relative Humidity	10%~90% relative humidity, non-condensing
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		
Serial Ports	2x RS232/422/485 w/ 2.5kv isolated	Shock Resistance	20G, half sine, 11ms, IEC60068-27
Control Software	P20: Control RTE/M20 : SoftMotion RTE/R20: SoftMotion CNC (Optional)	Vibration Resistance	Random: 2.2Grms @ 5~500Hz, IEC60068-2-64
Operating System	Win8 32-bit/64-bit, WES8 32-bit/64-bit Win7 32-bit/64-bit, WES7 32-bit/64-bit, WEC7, Linux Kernel version 3.8.0	EMC	CE Approval: EN55022 & EN55024, FCC Class A

Dimension Drawing



Ordering Information

* HMI Software License Exclude

System	Processor	Main Memory	Storage	Software Package	SoftPLC		HMI (Optional)		
					SoftMotion		JMobile		TargetVisu
					SoftMotion CNC				
APPC 1542T P20 HMI Controller A0IA1542T00X2	Celeron J1900	4G	32G	• P20 Windows WES7 Package (P/N: 88IA1247T00X2)	v	-	-	v	-
APPC 1542T M20 HMI Controller A0IA1542T00X2		4G	32G	• M20 Windows WES7 Package (P/N: 88IA1247T01X2)	v	v	-	-	v
APPC 1542T R20 HMI Controller A0IA1542T00X2		8G	32G	• R20 Windows Win7ProEmb Package (P/N: 88IA1542T00X2)	v	v	v	-	v
APPC 1540T Bare-bone System 10IA1540T00X0	Atom E3826	2G	Option	Support • Win8 32-bit/64-bit, WES8 32-bit/64-bit • Win7 32-bit/64-bit, WES7 32-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)								