

IPPC 1642P Controller

15.6" 16:9 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 15.6" 16:9 WXGA fanless Control Panel Computer IPPC 1642P comes with industrial motherboard, flush panel design and can have IP66 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

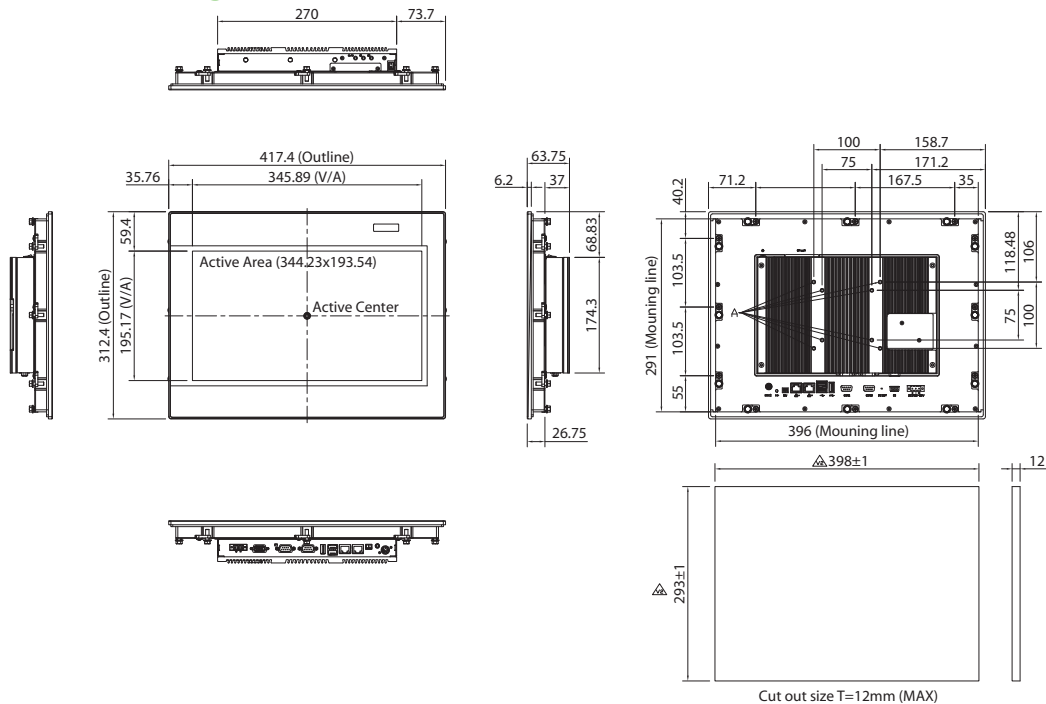
Specification	SoftPLC Controller	SoftMotion Controller	SoftMotion CNC Controller
Performance Index	P20	M20	R20
Real-Time	Yes	Yes	Yes
Software Protocols	EtherCAT, EtherNet/IP, PROFINET		
Optional Protocols via FBI	PROFIBUS, DeviceNET, CANopen		
IEC61131-3 Language	Ladder Diagram, Function Block Diagram, 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	IPPC 1642P	Technical Data	IPPC 1642P
Panel	15.6", 16:9, WXGA 1366 x 768 Luminance: 300cd/m2 Contrast ratio: 500 LCD color: 16.7M Viewing angle: 80(U), 80(D), 85(L), 85(R)	Expansion	2x mini-PCIe (Optional Module refer to Page 45)
		Power Requirement	12~30V DC Input
Touch screen	Ten points P-Cap (Projected Capacitive Touch) Touch light transmission: 87%	System Enclosure	Aluminum front bezel with Metal housing IP Protection: IP66 front Panel Mount/ Wall Mount/ VESA Mount Dimension: 417.4 x 312.4 x 63.75 mm Weight: 6.4 Kg
Processor	Intel® Celeron® processor J1900 quad core 2GHz	Operating Temperature	Ambient with air flow: -10°C to 60°C

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Main Memory	DDR3L 1600/1333MHz Memory Maximum up to 8GB	Operating Temperature	According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14
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, 2x USB2.0, 1 x USB3.0, 1 x Line-out, 1 x PS/2 Keyboard & Mouse	Shock Resistance	20G, half sine, 11ms, IEC60068-27
Serial Ports	2 x RS232/422/485 w/ 2.5kv isolated	Vibration Resistance	Random: 2.2Grms @ 5~500Hz, IEC60068-2-64 Sinusoidal: 2Grms @ 5~500Hz, IEC60068-2-64
Control Software	P20: Control RTE/M20 : SoftMotion RTE/ R20: SoftMotion CNC (Optional)	EMC	CE Approval: EN55022 & EN55024, FCC Class A
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	TargetVisu	
					SoftMotion CNC				
IPPC 1642P P20 HMI Controller A0II1642P00X2	Celeron J1900	4G	32G	P20 Windows WES7 Package (P/N: 88II1642P00X2)	v	-	-	v	-
IPPC 1642P M20 HMI Controller A0II1642P00X2		4G	32G	M20 Windows WES7 Package (P/N: 88II1642P01X2)	v	v	-	-	v
IPPC 1642P R20 HMI Controller A0II1642P00X2		8G	32G	R20 Windows Win7ProEmb Package (P/N: 88II1642P02X2)	v	v	v	-	v
IPPC1640P SoftMotion HMI Starter Kit 10II1640P01X0		4G	32G	Build-in WES7	v	-	-	v	-
IPPC 1640P Bare-bone System 10II1640P00X0		4G	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)								