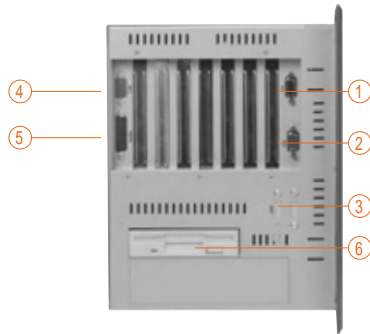# ICS-412V

12.1" Industrial Mini LCD Workstation with 5 PCI/ISA Slots

1. T/S Port
2. VGA Port
3. USB Port
4. Serial Port
5. Parallel Port
6. 3.5" FDD

Features

> **12.1" TFT LCD, half-size CPU card and 5 PCI/ISA slots supported**
> **Steel back chassis and Aluminum front bezel which meets IP-65/NEMA4 standard**
> **Cost-effective choice: supports 3.5" HDD/FDD, 5.25" CD-ROM**
> **Easy to expand: VGA interface**
> **Friendly I/O port: reserves USB, printer and COM port on chassis**
> **Anti-vibration design for HDD**
> **Supports (110~230V) and DC (24V/48V) power supply**

Introduction

The ICS-412V supports a 12.1" TFT LCD, half-size CPU card, and 5 PCI/ISA slots. The system also has a built-in VGA interface, 3.5" HDD/FDD, and a 5.25" CD-ROM. The ICS-412V is a cost-effective compact size workstation, and a good choice for users to meet harsh environment needs, such as measurement control, industrial machinery, transportation, and more.

Cost-effective choice- support 3.5" FDD/HDD & one 5.25" drive
The ICS-412V supports 3.5" FDD/HDD, one 5.25" drive for user's applications. It not only supports a standard CD-ROM, but also offers a 3.5" HDD kit. It allows users to use two HDD's at the same time. The ICS-412V also supports a HDD backup function.

Compact size
The ICS-412V is an easy-to-install compact-size workstation. It has passed through detailed computations in internal spatial dispositions. The workstation has the most complete design in spatial use. The dimensions of the ICS-412V are 361mm x 300mm x 216mm.

Easy-to-extend PCI slots
The ICS-412V supports an external VGA interface and allows users to use any kind of half-size card and also provides extra space for more PCI slots. The workstation can be adapted from 5 to 7 PCI slots, which allows users to have multiple options.

Friendly I/O port
The ICS-412V adopts an intimate design, which includes a PCI slot. The chassis includes two USB ports, a parallel and a DB-9 port. Users can directly lock the I/O connectors on the chassis to fully use the PCI slot.

Industrial-grade product design
The ICS-412V adopts a strong design and can be used in different industrial harsh environments.
• Steel back chassis and Aluminum front bezel meets the IP-65/NEMA4 standard.
• Supports a power bracket, which helps to prevent the power cord coming off.
• Anti-vibration design for HDD's
• Fan filter prevents dust from influencing system stability
• Supports AC (110~230V) and DC (24V/48V) power supplies

Specifications

Front Bezel	IP65, NEMA 4/12 rugged protection	
Construction	Heavy-duty steel	
Flat Panel Display	Display Type	12.1" TFT LCD active matrix
	Resolution	800 x 600
	Luminance	350cd/m^2
	Contrast Ratio	150:1
	Viewing Angle	(H) 120°, (V) 90°
	Backlight MTBF	25,000 hours
Drive Capacity	Expose 1 x 5.25", 1 x Built-in 3.5" FDD, and internal 1 x 3.5" drive	
Cooling	One 12cm ball bearing fan	
LCD Interface	VGA	

System Board Selections	ISA Interface	SBC82631; SBC82610
	PCI Interface	SBC82621; SBC82600
Touchscreen	Type	Resistive
	Light Transmission	79%
	Controller	RS-232 interface
	OS Support	Window® 98/2000/XP
	Point Activation	1 million activations (typical) at a single point
Dimensions	361mm(14.21")(W) x 216mm(8.5")(D) x 300mm(11.81")(H)	
Weight	13.045 kg (23.76 lb)	
Environmental	Operation temperature: 0°~50°C (32°~122°F) Relative humidity: 10~95% @ 40°C, non-condensing Operation vibration: 1.0G, 5~500Hz, random	

* All specifications and photos are subject to change without notice.

Ordering Information

ICS-412V-R	12.1" Industrial workstation w/ resistive T/S
ICS-412V-G	12.1" Industrial workstation w/ tempered glass

Watt	Input	Output	MTBF	Safety	EMI
180W AT (Standard offer)	V_{AC} 100 ~ 240	+5V @ 12A +12V @ 10A	100,000 hours	UL / CSA	FCC Class B
150W AT	V_{DC} 18 ~ 32	+5V @ 14A +12V @ 4.2A	100,000 hours	UL / CSA	FCC Class B
150W AT	V_{DC} 36 ~ 72	+5V @ 14A +12V @ 4.2A	100,000 hours	UL / CSA	FCC Class B

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Backplane Options

Model	Slots per Segment (ISA/PCI/CPU)	Segment	Remark
ATX6021/5	0/4/1	Single	Supports AXIOMTEK PCI half-size card
ATX6020/6	5/0/1	Single	Supports AXIOMTEK ISA half-size card
PCA-6105P5-0B1	0/4/1	Single	Supports PCI half-size card

Accessory

GHA-FM01	5.25" to 3.5" HDD/FDD drive holder

Dimensions