Display Workstation Solutions

IEI industrial workstations are PCs with built-in touch screens. The workstations use either a microATX motherboard or a backplane with a CPU card.



>> Industrial Workstation Series

Features

- Excellent expansion capability for full/half-size CPU cards
- Compact die-cast aluminum front panel and integrated LCD back frame
- Front panel, membrane keys, mouse pad and drive-bay enclosure meet IP 64 / IP 65 standard for tough environment



		WS-series	RPC-series		
Product Line		IP 64 Waterproof Workstation with Membrane Keypads	Easy Rack Mount Workstation with OSD Functions		
LCD Size		Model / Mechanism			
6.5"	640 x 480		EC-1040G (4U 14-slot full-size)		
8.4"	800 x 600		RPC-6010G (4U 14-slot full-size)		
10.4"	800 x 600	WS-612GS (6U 7-slot)			
12.1"	1024 x 768	WS-843GS (7U 10-slot)	RPC-6022G (5U 14-slot)		
15"	1024x 768	WS-855GS (8U 10-slot/m-ATX MB)			
17"	1280 x 1024	WS-875GS (9U 10-slot/m-ATX MB)			

Industrial Workstation Series

 $10.4^{\prime\prime} \sim 17^{\prime\prime}$ IP 64 Waterproof Workstation: Robust, Shock Resistance



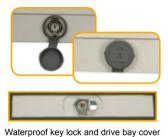
Features

- 1. Die-cast aluminum front panel with integrated LCD screen
- 2. New robust chassis and retention kit structure for shock and vibration
- 3. Front panel, membrane keys, mouse pad and drive-bay enclosure meet IP 64 standard for tough environment
- 4. Full function membrane keys and submerged OSD controller
- 5. Advanced thermal and air-flow design
- 6. Analog VGA interface supports all CPU boards

Features

IP 64 waterproof front panel, membrane keys, mouse pad & drive-bay

The industrial workstation's front cover is IP 64 compliant. The front cover is completely protected against the entry of dust and water sprayed from any direction.





Compact die-cast aluminum front panel and integrated LCD back frame

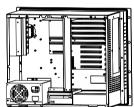
Rack or wall mount systems always apply the whole system weight on the front bezel and LCD container. One piece design has higher strength and lighter weight because of aluminum die casting.



New robust chassis and retention kit structure to against shock and vibration

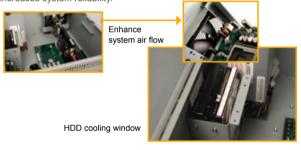
The whole chassis and retention kit are designed to be sturdy and rugged. The whole chassis has less joints and connections to increase resistance to shock and vibration.





Enhanced thermal management

Built-in fans and hard drive cooling ensure that temperatures stay within operating range all the time. This extends product life and increases system reliability.



CPU card and Micro-ATX support

The WS-855GS, WS-875GS and WS-895GS can support microATX motherboards. microATX motherboards are widely used and offer a larger range of options to suit the needs of the system.





Optional RS-232 interface touch screen

The WS series provides an RS-232 port reserved for touch screen. IEI Workstation provides T-R model with high strength fiber glass touchscreen applications.



Optional RS-232 port

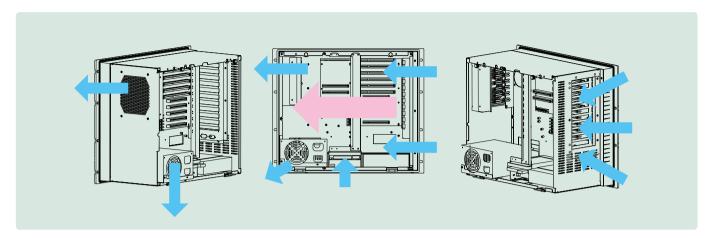
Complete drive support

The industrial workstations support 3.5" and 5.25" drives, and a floppy drive.

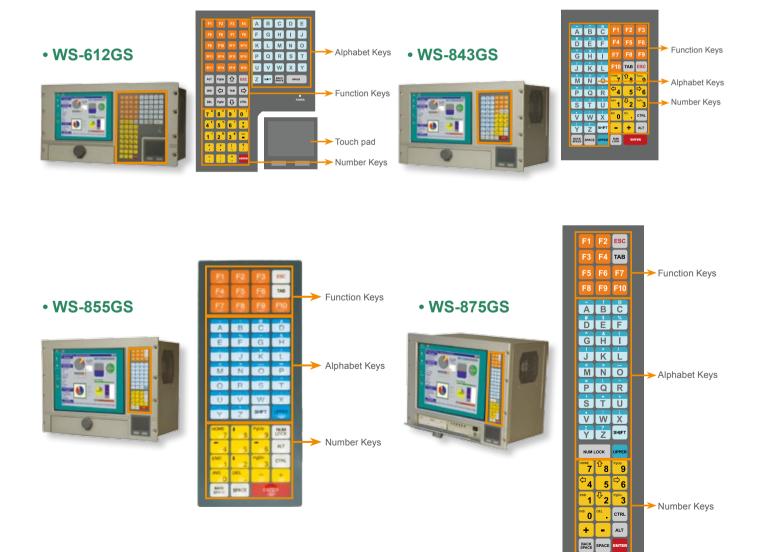


Advanced thermal and air-flow design

The thermal issue is an important issue for the modern industrial PC. The IEI industrial workstation is designed to have air flows through the computer by pulling cool air in one side and exhaust heated air out the other.



Full function membrane keys & submerged OSD controller



Industrial Workstation Selection Guide



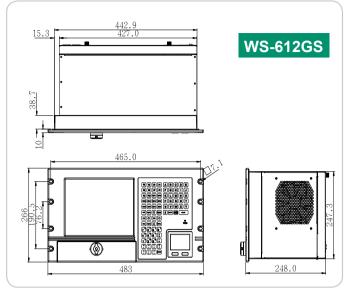


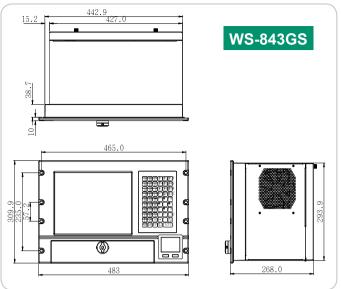


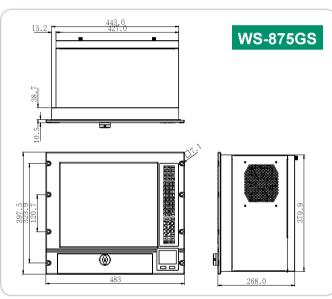


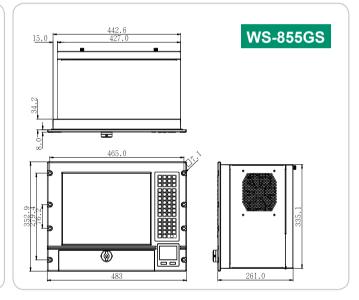
Model	WS-612GS	WS-843GS	WS-855GS	WS-875GS		
LCD Size	10.4"	12.1"	15"	17"		
Resolution	800 x 600	1024 x 768	1024 x 768	1280 x 1024		
Brightness (cd/m²)	400	500	350	300		
Contrast	700:1	700:1	400:1	500:1		
LCD color	262K	262K	262K	16.2M		
Backlight Hours	50000 (LED Backlight)	50000 (LED Backlight)	50000	50000		
Input Interface		Analog \	VGA (DB-15)			
Slot	7 slots	10 slots	10 slots / MB	10 slots / MB		
Form Factor	Full/Half-s	ize SBC	Full/Half-size SBC	/ microATX motherboard		
Mounting		19" ra	ack mount			
Rack Height	6U	7U	8U	9U		
Front Frame		Alu	uminum			
IP Level		1	IP 64			
KeyPad	63 Keys	59 Keys	59 Keys	59 Keys		
Function Key	20 Keys	10 Keys	10 Keys	10 Keys		
Touch Pad			Yes			
Front Panel USB	4	2	2	2		
HDD Drive Bay	1 x 3.5" HDD	1 x 3.5" HDD	1 x 3.5" HDD	1 x 3.5" HDD		
CD-ROM Drive Bay	N/A	1 x 5.25" CD-ROM	1 x 5.25" CD-ROM	1 x 5.25" CD-ROM		
FDD Bay	1 x 3.5" FDD	1 x 3.5" FDD	1 x 3.5" FDD	1 x 3.5" FDD		
System Fan		12cm ball bea	ring 99.6 CFM fan			
Touch Screen		5-wire resist	ive touch screen			
Vibration	5 ~ 17 Hz, (0.1" double amplitude displacement	ent / 17~640 Hz, 1.5G acceleration	on peak to peak		
Shock		10G acceleration	peak to peak (11ms)			
Relative Humidity		5% ~ 95%,	non-condensing			
Operating Temperature		0°C	∵~ 50°C			
Color		Silver (Pant	tone PMS-8001)			
Dimensions (W x H x D) (mm)	483 x 266 x 248	483 x 310 x 268	483 x 353 x 261	483 x 398 x 268		
Weight (NW / GW)	9.2 kg / 14.4 kg	10.7 kg / 17.2 kg	12 kg / 18.2 kg	14.2 kg / 20.6 kg		
Recommended Backplane	AT: IP-7S, BP-7S ATX: HPE-7S1, PE-6S/7S, PE-7S2 AT/ATX: PCI-7S	HPE-7S1, PE-6S/7S, PE-7S2 AT/ATX: PCI-10S2, HPE-7S1/8S, PE-6S/7S/7S2/8S/9S AT/ATX: PCI-10S IPX-9S				
Recommended microATX MB	N/A	A	IMB-94	54, IMB-G41A		
Power Supply	AT: ACE-916AP-RS ATX: ACE-A618A-RS-R11, ACE-4520C-RS, ACE-A225A-R10, ACE-615A-RS-R11	AT: ACE-925A(AP-U)-RS, ACE-932A-RS, ACE-935AL-RS, ACE-T140A-RS ATX: ACE-4860AP-R11-RS, ACE-828A(A/M/V)-RS, ACE-A130B-R10, ACE-A140A-R10, ACE-A140A-S-R10, ACE-A160A-R10				

Dimensions (Unit: mm)









Ordering Information

O	
Part NO	Description
WS-612GS / A225A / R-R20	6U 10.4" 400cd/m² SVGA LCD 8-slot industrial workstation, aluminum front, silver color, W/ACE-A225A, W/10.4" touch screen, RoHS
WS-843GS / A130B / R-R20	7U 12.1" 500cd/m² XGA LCD 10-slot industrial workstation, aluminum front, silver color, W/ACE-A130A/12.1" touch screen, RoHS
WS-855GS / A130B / R-R20	8U 15" 350cd/m² XGA LCD 10-slot industrial workstation with ACE-A130B-R10 300W ATX with PFC power supply and 15" resistive touch screen,RoHS
WS-855GSATX / A130B / R-R20	8U m-ATX 15" 350cd/m² XGA LCD workstation with ACE-A130B-R10 300W ATX with PFC power supply and 15" resistive touch screen, M-ATX version
WS-875GS / A130B / R-R20	9U 17" 300cd/m² SXGA TFT LCD workstation with ACE-A130B-R10 300W ATX with PFC power supply and 17" resistive touch screen
WS-875GSATX / A130B / R-R20	9U 17" 300cd/m² SXGA LCD workstation with ACE-A130B-R10 300W ATX with PFC power supply and 17" resistive touch screen, M-ATX version

Packing List

Part Number	Description	Amount	Remark
32000-000002-RS	AC Power Cable	1	Standard Packing, for Europe, 32000-000004-RS for South Africa 32000-000022-RS for Australia, 32000-000025-RS for America 32000-000026-RS for Switzerland
32000-101200-RS	VGA Cable	1	A)D-SUB 15P MALE 90°(B)D-SUB 15PIN MALE
32100-034801-RS	PS_ON Cable for ATX signal	1	
41015-0003C0-00-RS	Press Stick Kit (Long)	4	
41015-0004C0-00-RS	Press Stick Kit (Short)	3	
47001-000101-RS	Press Stick Rubber	7	
	User Manual	1	
32000-075000-RS	KeyPad / MousePad PS/2 Cable	1	For SBC Models
32000-078400-RS	KeyPad / MousePad PS/2 Cable	1	For m-ATX (Motherboards) Models
32000-101100-RS	RS-232 Cable / Touch Pen / Driver CD-ROM for Touch Screen	1	(A)D-SUB 9P MALE 90°(B)D-SUB 9PIN FEMALE

EC-1040G

4U 14-slot Rack Mount LCD Workstation



Features

- 1. 6.5" TFT LCD with OSD control panel
- 2. Multi-function thermal alarm system
- 3. Optional KM-088G (keyboard and touch pad module)
- 4. Flexible driver combination
- 5. PICMG 1.3 backplane and redundant power supply support
- 6. Advanced air-flow design

Backplane & Power Supply Options

Backplane	SBC Type	PCI	CI ISA	PCle			PSU
Model No.	SBC Type	FCI		X1	X4	X16	Connector
PCI-13SD-RS-R40	PICMG 1.0	3+4	3+3	0	0	0	AT/ATX
PCI-14S2-RS-R40	PICMG 1.0	4	8	0	0	0	AT/ATX
PCI-14S3-RS-R40	PICMG 1.0	4	9	0	0	0	AT/ATX
PX-14S3-RS-R41	PICMG 1.0	12	2	0	0	0	AT/ATX
PC-14S5-RS-R41	PICMG 1.0	7	6	0	0	0	AT/ATX
BP-14S-RS-R40	ISA	0	14	0	0	0	AT
PXAGP-13S3-RS-R30	PIAGP	11	0	0	0	0	AT/ATX
PE-13SD-R40	PICMG 1.3	2/2	0	0/4	1/0	1/1	ATX
PXE-13S-R42	PICMG 1.3	8	0	3	0	1	ATX

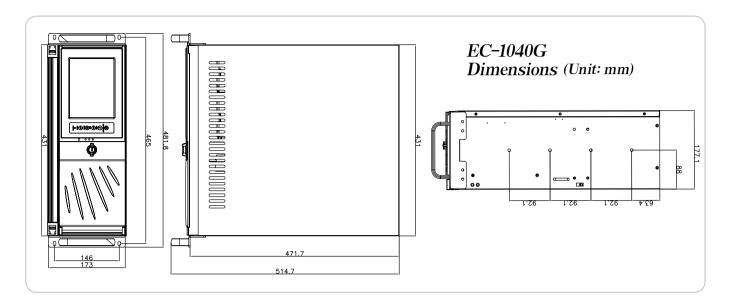


Туре	Model No.	Watt
AT	ACE-935AL-RS	300W
	ACE-T140A-RS	400W
	ACE-A130B-R10	300W
ATX	ACE-A140A-R10	400W
	ACE-A140A-S-R10	400W
Redundant Power Support	ACE-R4130AP-RS	300W



Specifications

Construction	Heavy Duty Metal	Color	Black
SBC Form Factor	EC-1040GB – Full size slot CPU card EC-1040GBATX – ATX or Micro ATX	Weight (Net / Gross)	15.3 kg / 28.8 kg
Drive Bays	3 x 5.25" + 1 x 3.5"	Dimensions	480 mm x 431 mm x 176 mm
Cooling Fans	2 x 8 cm	Touch Screen	Optional 4-wire resistive type with RS-232 interface
I/O Openings	2 x COM, 1x PS/2		LCD Spec
Expansion Slots	14 slots for EC-1040G 7 slots for EC-1040GATX	Size	6.5"
Indicators	1. Temperature 2. LAN 3. Fan	Resolution	640 x 480 (VGA)
Buttons	.Power switch System reset	Brightness	800 cd/m²
Operating Shock	10G acceleration peak to peak (11ms)	Contrast	600:1
Operating Vibration	5~17Hz 0.1" double amplitude displacement 17~640 Hz 1.5G acceleration peak to peak	Viewing Angle	160° / 140°
Operating Temperature	0°C ~ 50°C	Backlight MTBF	50000 (LED Backlight) hrs
Operating Humidity	5% ~ 95% @ 60° C, non-condensing	LCD Color	262k



■ Flexible drive combination



IEI EC-1040G provides a versatile drive combination for all kinds of uses. User can easily integrate different media drive size for their needs.



■ Rear view of EC-1040G

EC-1040GBX



- Works with backplane
- 14 expansion slots

EC-1040GBATX



- Works with ATX motherboard
- 7 expansion slots

■ Optional KM-088G

The KM-088G is an 88-key touch pad module. The standard version is with English keyboard and optional Japanese, German, French, Italian, Chinese, or Russian version keyboard is available. It also supports media drive for their needs.



Advanced air-flow design

Thermal condition is the most important issue of the new generation IPCs. IEI's "single way" design provides you higher system performance capability and more flexibility for the environment.



Ordering Information

Part No.	Description
EC-1040GB / A130B-R30	4U Rack mount LCD chassis with 6.5" 800 cd/m² VGA TFT LCD, ACE-A130B-R10, RoHS
EC-1040GB / A130B / R-R30	4U Rack mount LCD chassis with 6.5" 800 cd/m2 VGA TFT LCD,ACE-A130B-R10 and touch screen,RoHS
EC-1040GBATX / A130B-R30	4U Rack mount LCD chassis for ATX MB with 6.5" 800 cd/m² VGA TFT LCD,ACE-A130B-R10,RoHS
EC-1040GBATX / A130B / R-R30	4U Rack mount LCD chassis for ATX MB with 6.5" 800 cd/m² VGA TFT LCD,ACE-A130B-R10 and touch screen,RoHS
Optional	
KM-088G-[L]-R20	[L] : Language code EN: English, JP: Japanese, DE, German, FR: French, IT: Italian, RU: Russian, CH: Chinese

RPC-6010G

8.4" TFT LCD 4U 14-slot Rack Mount Workstation



Features

- 1. 8.4" TFT LCD with OSD and membrane keypads
- 2. Flexible drive combination
- 3. Lockable front door
- 4. Two USB ports on the front panel
- 5. PICMG 1.3 backplane and redundant power supply support
- 6. Advanced air-flow design

Backplane & Power Supply Options

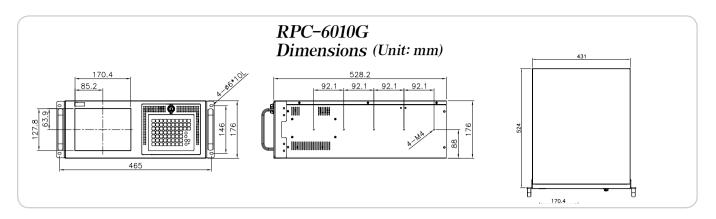
Backplane	SBC Type	PCI	ISA	PCIe			PSU
Model No.				X1	X4	X16	Connector
PCI-13SD-RS-R40	PICMG 1.0	3+4	3+3	0	0	0	AT/ATX
PCI-14S2-RS-R40	PICMG 1.0	4	8	0	0	0	AT/ATX
PCI-14S3-RS-R40	PICMG 1.0	4	9	0	0	0	AT/ATX
PX-14S3-RS-R41	PICMG 1.0	12	2	0	0	0	AT/ATX
PC-14S5-RS-R41	PICMG 1.0	7	6	0	0	0	AT/ATX
BP-14S-RS-R40	ISA	0	14	0	0	0	AT
PXAGP-13S3-RS-R30	PIAGP	11	0	0	0	0	AT/ATX
PE-13SD-R40	PICMG 1.3	2/2	0	0/4	1/0	1/1	ATX
PXE-13S-R42	PICMG 1.3	8	0	3	0	1	ATX



Power Supply Options					
Type	Model No.	Watt			
AT	ACE-935AL-RS	300W			
AI	ACE-T140A-RS	400W			
	ACE-A130B-R10	300W			
ATX	ACE-A140A-R10	400W			
	ACE-A140A-S-R10	400W			
ATX Redundant	ACE-R4130AP-RS	300W			

Specifications

Construction	Heavy Duty Metal	Color	White
SBC Form Factor	RPC-6010G – Full-size slot CPU card RPC-6010GBATX – ATX or microATX	Weight (Net / Gross)	15 kg / 18 kg
Drive Bays	3 x 5.25" + 1 x front-accessible 3.5" + 1 x HDD	Dimensions	528 mm x 431 mm x 176 mm
Cooling Fans	1 x 12 cm	Touch Screen	4-wire resistive type
I/O Openings	2 x USB, 2 x COM, 1 x PS/2		LCD Spec.
Expansion Slots	14 slots for RPC-6022G 7 slots for RPC-6022GATX	Size	8.4"
Indicators	Power LED	Resolution	800 x 600 (SVGA)
Buttons	Power switch System reset	Brightness	450 cd/m²
Operating Shock	10G acceleration peak to peak (11ms)	Contrast	600:1
Operating Vibration	5~17Hz 0.1" double amplitude displacement 17~640 Hz 1.5G acceleration peak to peak	Viewing Angle	160° / 140°
Operating Temperature	0°C ~ 50°C	Backlight MTBF	50000 (LED Backlight) hrs
Operating Humidity	5% ~ 95% @ 60°C, non-condensing	LCD Color	262k



■ Rear view of RPC-6010G



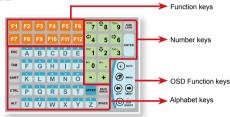
RPC-6010GATX

Works with ATX motherboard

Waterproof OSD and membrane keypads



IEI RPC series has a complete set of waterproof OSD and membrane keypads on the front panel, which simplify system configuration.



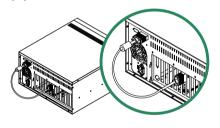
■ Flexible driver combination

IEI RPC series provides versatile drive combination for all kinds of uses. Users can easily integrate any media drive size for their needs.

Peripheral devices with USB interface are popular and widely used nowadays. For the convenience of connection, RPC series has two USB ports on the front bezel offering excellent accessibility.



■ Analog VGA interface supports all CPU boards



Advanced air-flow design

Thermal condition is the most important issue of the new generation IPCs. IEI's "single way" design provides high system performance in any environment.





Ordering Information

ACE-A131B (ATX)						
RPC-6010GW/A130B/R-R20 4U Rack mount chassis, with with 8.4" 450cd/m² SVGA LCD w/ACE-A130B-R10 and Touch Screen, RoHS						
RPC-6010GWATX/A130B/R-R20	4U Rack mount chassis for ATX motherboard, with 8.4" 450cd/m² SVGA LCD w/ACE-A130B-R10, w/8.4" Touch Screen, RoHS					
ACE-R4130AP (Redundant)	ACE-R4130AP (Redundant)					
RPC-6010GWR/R4130AP/R-R20	4U Rack mount chassis, with 8.4" 450cd/m² SVGA LCD ,ACE-R4130AP-R10 and Touch Screen, RoHS					
RPC-6010GWAR/R4130AP/R-R20	4U Rack mount chassis for ATX mother board, with with 8.4" 450cd/m² SVGA LCD, ACE-R4130AP-R10 and Touch Screen, RoHS					

RPC-6022G

12.1" TFT LCD 5U 14-slot Rack Mount Workstation



Features

- 1. 12.1" TFT LCD with OSD and membrane keypads
- 2. Flexible drive combination
- 3. Lockable front door
- 4. Two USB ports on the front panel
- 5. PICMG 1.3 backplane and redundant power supply support
- 6. Advanced air-flow design

Backplane & Power Supply Options

Backplane Model No.	SBC Type	PCI	ISA	PCle			PSU
				X1	X4	X16	Connector
PCI-13SD-RS-R40	PICMG 1.0	3+4	3+3	0	0	0	AT/ATX
PCI-14S2-RS-R40	PICMG 1.0	4	8	0	0	0	AT/ATX
PCI-14S3-RS-R40	PICMG 1.0	4	9	0	0	0	AT/ATX
PX-14S3-RS-R41	PICMG 1.0	12	2	0	0	0	AT/ATX
PC-14S5-RS-R41	PICMG 1.0	7	6	0	0	0	AT/ATX
BP-14S-RS-R40	ISA	0	14	0	0	0	AT
PXAGP-13S3-RS-R30	PIAGP	11	0	0	0	0	AT/ATX
PE-13SD-R40	PICMG 1.3	2/2	0	0/4	1/0	1/1	ATX
PXE-13S-R42	PICMG 1.3	8	0	3	0	1	ATX

Power Supply Options				
Туре	Model No.	Watt		
АТ	ACE-935AL-RS	300W		
	ACE-T140A-RS	400W		
ATX	ACE-A130B-R10	300W		
	ACE-A140A-R10	400W		
	ACE-A140A-S-R10	400W		
ATX Redundant	ACE-R4130AP-RS	300W		





Specifications

Construction	Heavy Duty Metal	Color	White	
SBC Form Factor	RPC-6022G – Full-size slot CPU card RPC-6022GBATX – ATX or microATX	Weight (Net / Gross)	15 kg / 18 kg	
Drive Bays	1 x 5.25" + 1 x front-accessible 3.5" + 1 x HDD	Dimensions	470 mm x 431 mm x 220 mm	
Cooling Fans	2 x 12 cm	Touch Screen	5-wire resistive type	
I/O Openings	2 x USB, 2 x COM, 1 x PS/2	LCD Spec.		
Expansion Slots	14 slots for RPC-6022G 7 slots for RPC-6022GATX	Size	12.1"	
Indicators	Power LED	Resolution	1024 x 768 (XGA)	
Buttons	Power switch system reset	Brightness	500 cd/m ²	
Operating Shock	10G acceleration peak to peak (11ms)	Contrast	700:1	
Operating Vibration	5~17Hz 0.1" double amplitude displacement 17~640 Hz 1.5G acceleration peak to peak	Viewing Angle	160° / 160°	
Operating Temperature	0°C~ 50°C	Backlight MTBF	50000 (LED Backlight) hrs	
Operating Humidity	5% ~ 95% @ 60° C, non-condensing	LCD Color	262k	

RPC-6022G Dimensions (Unit: mm) 471.2 92.1 92.1 92.1 92.1 92.1

■ RPC-6022G Rear view



RPC-6022G

Works with backplane 14 expansion slots



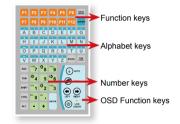
RPC-6022GATX

Works with ATX motherboard 7 expansion slots

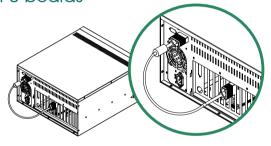
Waterproof OSD and membrane keypads

IEI RPC series has a complete set of waterproof OSD and membrane keypads on the front panel, which simplify system configuration.



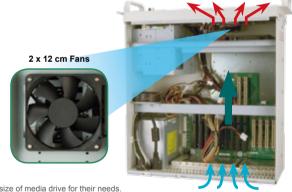


Analog VGA interface supports all CPU boards



Advanced air-flow design

Thermal condition is the most important issue of new generation IPCs. IEI's "Single way" design provides you higher system performance and flexibility for the environment.



■ Flexible drive combination

IEI RPC series provides versatile drive combination for all kinds of usage. Users can easily integrate any size of media drive for their needs.





Ordering Information

ACE-A131B (ATX)				
RPC-6022GXW/A130B/R-R10	5U Rack mount chassis, with 12.1" 500cd/m² XGA LCD w/ACEA130B-R10,RoHS and Touch Screen, RoHS			
RPC-6022GXWA/A130B/R-R10	5U Rack mount chassis for ATX mother board, with 12.1" 500cd/m² XGA LCD w/ACE-A130BR10, w/12.1" Touch Screen, RoHS			
ACE-R4130AP (Redundant)				
RPC-6022GXWR/R4130AP/R-R10	5U Rack mount chassis, with 12.1" 500cd/m² XGA LCD ,ACE-R4130AP Redundant Power Supply and Touch Screen, RoHS			
RPC-6022GXWAR/R4130AP/R-R10	5U Rack mount chassis for ATX mother board, with 12.1" 500cd/m² XGA LCD, ACE-R4130AP-RS and Touch Screen, RoHS			