



2014-2015 DISPLAY PRODUCT GUIDE

Your trusted partner for HMI, Automation
and Industrial Communication!



COMPANY PROFILE

ICOP Technology Inc., a member of DM&P Group, was started in 1989 as an industrial controller designer and manufacturer. Influenced by the explosive growth of the Industrial computer demand in early 1990, ICOP adopted x86 SoC (System-on-Chip) technology and built their reputation by offering solid embedded SBC (Single Board Computer) for the applications where small footprint, low power consumption, wide temperature, etc., are concerned.

With more than 20 years effort, now ICOP is a company with manufacturing facilities in Taiwan and with sales offices in major cities around the globe. In order to embrace the diversity of the industrial field, ICOP started to create more product lines since 2004, such as open frame and panel pc.

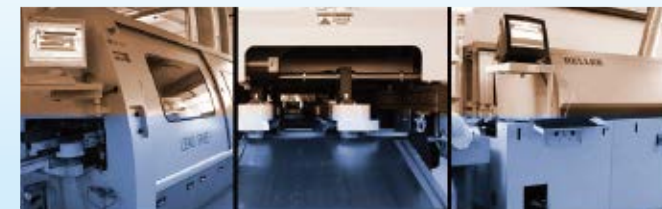
Our Advantage – Extended Temperature Support

Recognizing the need for industrial products to operate in extended temperature range, ICOP includes design consideration for many of our products to operate in extended temperature range. For the Panel PC series product, the standard product design is targeted to operate in temperature range from -20°C to +70°C (-4°F to +158°F). Within wide temperature range, our products will be able to cope with the several industrial environments. We offer various sizes of panels for application environments, to be suited for Home Automation, Machine Automation, Retail, Power and Energy, Transportation and Industrial Control.

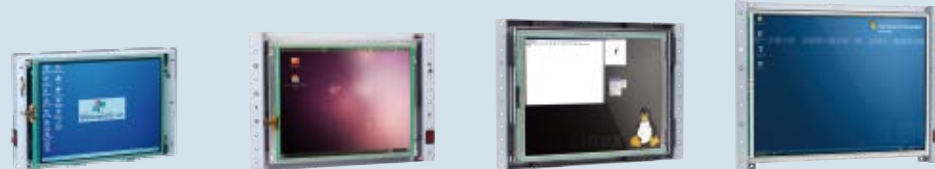
Various OS Compatibility – Windows / Linux

All Panel PCs are based on x86 system. Supporting Windows Embedded family, including Windows CE, XP, Embedded Standard (Windows XP Embedded), or Windows 7 provides the complete time-to-market advantage. On the other hand, Linux has emerged as great choice for embedded applications as well due to its flexibility for customized embedded systems. Recognizing the advantage Windows Embedded family and Linux distributions might inspire, ICOP is committed to provide customers with the abundant supports in using Embedded Technologies. With more than 20 years of embedded hardware design/ manufacturing experience, flexible business model, along with unmatched commitment to support Windows and Linux embedded technologies.

ICOP is your best embedded hardware partner.



OPEN FRAME SERIES

				
MODEL	VOX-084-TS	VOX-104-TS	VOX-121-TS	VOX-150-TS
Type	SVGA	SVGA	SVGA	XVGA
Size	8.4"	10.4"	12.1"	15"
Resolution	800x600	800x600	800x600	1024x768
Colors	262,144	262,144	262,144	262,144
View Angle (L/R/U/D)	80/80/80/60	80/80/60/80	80/80/65/75	85/85/80/80
Brightness	250 cd/m ²	400 cd/m ²	450 cd/m ²	350 cd/m ²
Backlight life	30,000	50,000	50,000	30,000
Contrast Ratio	600:1	700:1	700:1	700:1
CPU	DMP Processor 800MHz			
Cache	L1: 16KB I-Cache, 16KB D-Cache L2: 4-way, 256KB L2 Cache			
Memory	512MB / 1GB DDRII Onboard			
Watchdog Timer	Software programmable from 30.5u to 512 seconds x 2 sets			
Serial Port	RS-232/422/485 x 1, RS-232 x 6			
USB Ports	USB Ports (Ver2.0) x 2			
Ethernet	Integrated 10/100M Ethernet			
Audio	CM119 Audio Controller / HD Audio-Realtek ALC262 CODEC			
Flash Disk Support	Onboard 4MB Flash Disk (Optional) EmbedDisk Module / Compact Flash Type I/II (Optional)			
Touch Screen Type	Resistive			
Power Requirement	5VDC, 12VDC	5VDC, 12VDC	5VDC, 12VDC	5VDC, 12VDC
Power Consumption	47W			
Operating Temperature	0°C to +50°C (+32°F to +122°F)			
Dimensions (WxHxD) mm	230.4 x 150 x 29 (9" x 5.9" x 1.1")	303 x 204 x 45.5 (11.9" x 8" x 1.8")	345 x 238.4 x 45.5 (13.6" x 9.4" x 1.8")	368 x 278 x 45.5 (14.5" x 10.9" x 1.8")
Operating System	DOS, Linux, Windows CE, Windows XP Embedded			

LCD SERIES

					
MODEL	5.7" LCD Set	8.4" LCD Set	10.4" LCD Set	12.1" LCD Set	15" LCD Set
LCD Brand	Data Image	AUO	AUO	AUO	AUO
Size	5.7"	8.4"	10.4"	12.1"	15"
Resolution	640x480 VGA	800x600 SVGA	800x600 SVGA	1024x768 XVGA	1024x768 XVGA
Backlight	LED	LED	LED	LED	LED
Colors	262K	262K/16.2M	262K/16.2M	262K/16.2M	262K/16.2M
View Angle (L/R/U/D)	70/70/60/40	80/80/80/60	80/80/80/60	80/80/65/75	80/80/85/85
Brightness	320 cd/m ²	250 cd/m ²	400 cd/m ²	450 cd/m ²	350 cd/m ²
Contrast Ratio	300:1	600:1	700:1	700:1	700:1
Response Time (ms)	50	30	30	35	8
Signal Interface	18 bits TTL	6bit/8bit LVDS	6bit/8bit LVDS	6bit/8bit LVDS	6bit/8bit LVDS
Supply Voltage (V)	3.3V	3.3V	3.3V	3.3V	3.3V
Power Consumption	2W	3.66W	4.8W	6.7W	10.9W
Lamp Life (Hrs.)	50,000	30,000	50,000	50,000	30,000
Operating Temp	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-30°C to +85°C (-22°F to +185°F)	-30°C to +85°C (-22°F to +185°F)	-30°C to +85°C (-22°F to +185°F)
Accessories	5.7" TFT LCD w/LCD cable, TouchScreen and TouchScreen controller	8.4" LCD w/LVDS converter, cable, TouchScreen and TouchScreen controller	10.4" LCD w/LVDS converter, cable, TouchScreen and TouchScreen controller	12.1" LCD w/LVDS converter, cable, TouchScreen and TouchScreen controller	15" LCD w/LVDS converter, cable, TouchScreen and TouchScreen controller



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FEATURES

- 4.3" TFT LCD with Resistive Touchscreen
- DMP x86 Processor 400MHz Onboard
- 128MB / 256MB System Memory Onboard
- SD Slot / Flash Memory Onboard
- IEEE 802.3AT Power Over Ethernet (PoE) Compliant
- RS-485 and CAN bus Support
- Open Frame Type Optional
- IP65 Compliant Front Panel



▲ HMI-043T

Technical Specification

MODEL	HMI-043T-EM41N-LR
LCD Display	Size
	Resolution (Pixel)
	Colors
	View Angle
	Brightness
Display	Backlight life
	Contrast Ratio
CPU	DMP Vortex86EXm 400MHz
Cache	L1: 16KB I-Cache, 16KB D-Cache L2: 4-way, 128KB L2 Cache
Memory	128MB / 256MB DDRIII onboard
Serial Port	RS-232/485/CAN BUS x 1
USB Ports	USB ports (Ver2.0) x 1
Ethernet	RJ45 10/100Mbps Ethernet, Support IEEE 802.3AT, PoE/PD
Internal Drives	SD Slot / Flash Memory onboard (Optional)
Touch Screen Type	Analog Resistive
Expansion Slot	Wi-Fi optional
Power Requirement	+7~24VDC
Operating Temperature	0°C to +50°C (+32°F to +122°F) / -20°C to +60°C (-4°F to +140°F)
Storage Temperature	-30°C to +70°C (-22°F to +158°F)
Operating Humidity	0% to 90% Relative Humidity, Non-Condensing
Operating System	DOS, Linux, Windows CE, RTOS
Dimensions	W 116.4 x H 94.4 x D 34.3 mm (W 4.58 x H 3.71 x D 1.35 inches)
Weight	300g

ORDERING INFORMATION

HMI-043T-EM41N-OP	4.3" Vortex86EXm HMI w/128MB RAM/ Open Frame
HMI-043T-EM41N-LR	4.3" Vortex86EXm HMI w/128MB RAM/ USB / LAN / COM / DC7-24V

FEATURES

- 5.7" TFT LCD with Resistive Touchscreen
- DMP Vortex86 CPU DX / MX+ 933MHz Onboard
- 512MB / 1GB Memory Onboard
- Integrated 10/100Mbps Ethernet
- RS-232/422/485 Port
- Compact Flash Type I/II / Micro SD Slot
- Fanless and Low Power Consumption
- Metal Chassis with Compact Design



Technical Specification

MODEL	PDX-057T	PMX-057T
LCD Display	Type	VGA TFT LCD
	Size	5.7"
	Resolution (Pixel)	640x480
	Colors	262,144
	View Angle	Vertical 100°, Horizontal 140°
	Brightness	400 cd/m²
	Backlight life	50,000 hrs
	Contrast Ratio	300:1
CPU	DMP Vortex86DX 933MHz	DMP Vortex86MX+ 933MHz
Cache	L1: 16KB I-Cache, 16KB D-Cache L2: 4-256KB Cache	
Memory	256 / 512MB DDRII onboard	512MB / 1GB DDRII onboard
Watchdog Timer	Software Programmable from 30.5u to 512 Seconds x 2 Sets	
Serial Port	RS-232/422/485 x 1	
USB Ports	USB ports (Ver2.0) x 2	
Ethernet	Integrated 10/100Mbps Ethernet	
Audio	CM119 Audio Controller	HD Audio-Realtek ALC262 CODEC
Internal Drives	Compact Flash Type I/II slot, Micro SD slot	
Touch Screen Type	Analog Resistive	
Expansion Slot	Wi-Fi optional	
Power Requirement	+5VDC / +8~+35VDC (DC10~14V with Power Switch)	
Power Consumption	+5V@1.3A	+5V@1.5A
Operating Temperature	-20°C to +60°C (-4°F to +140°F)	0°C to +50°C (+32°F to +122°F)
Storage Temperature	-30°C to +70°C (-22°F to +158°F)	-10°C to +60°C (+14°F to +140°F)
Operating Humidity	0% to 90% Relative Humidity, Non-Condensing	
Operating System	DOS, Linux, Windows CE, Windows XP	
Dimensions	152 x 112 x 33mm (5.98 x 4.41 x 1.3 inches)	
Weight	374g	
Certificate	CE, FCC, VCCI, Vibration	

ORDERING INFORMATION

PDX-057T-RD5A	5.7" Vortex86DX Panel PC w/256MB RAM / 2USB / Line-Out / LAN / 1COM / CF / MicroSD / Power Adapter
PDX-057T-RD8A	5.7" Vortex86DX Panel PC w/256MB RAM / 2USB / Line-Out / LAN / 1COM / CF / MicroSD
PDX-057T-RD5A-512	5.7" Vortex86DX Panel PC w/512MB RAM / 2USB / Line-Out / LAN / 1COM / CF / MicroSD / Power Adapter
PDX-057T-RD8A-512	5.7" Vortex86DX Panel PC w/512MB RAM / 2USB / Line-Out / LAN / 1COM / CF / MicroSD
PMX-057T-5A	5.7" Vortex86MX+ Panel PC w/1GB RAM / 2USB / Line-Out / LAN / 1COM / CF / MicroSD / Power Adapter
PMX-057T-8A	5.7" Vortex86MX+ Panel PC w/1GB RAM / 2USB / Line-Out / LAN / 1COM / CF / MicroSD

FEATURES

- 9" TFT LCD with Resistive Touchscreen
- DMP Vortex86 CPU MX+ / DX2 933MHz Onboard
- 512MB / 1GB / 2GB Memory Onboard
- Integrated 10/100Mbps Ethernet/Giga Ethernet
- RS-232/422/485 Port
- Compact Flash Type I/II / Micro SD Slot / SATA Slim DOM
- Fanless and Low Power Consumption
- Metal Chassis with Compact Design



Technical Specification

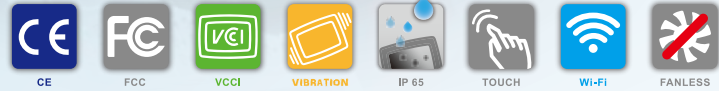
MODEL	PMX-090T	PPC-090T
LCD Display	Type	WSVGA TFT LCD
	Size	9"
	Resolution (Pixel)	1024x600
	Colors	262,144
	View Angle	Vertical 100°, Horizontal 140°
	Brightness	300 cd/m²
	Backlight life	25,000 hrs
CPU		500:1
	DMP Vortex86MX+ 933MHz	DMP Vortex86DX2 933MHz
Cache	L1: 16KB I-Cache, 16KB D-Cache L2: 4-way, 256KB L2 Cache	
Memory	512MB / 1GB DDRII onboard	512MB / 1GB / 2GB DDRII onboard
Watchdog Timer	Software Programmable from 30.5u to 512 Seconds x 2 Sets	
Serial Port	RS-232/422/485 x 1	RS-232/422/485 x 2
USB Ports	USB ports (Ver2.0) x 2	
Ethernet	Integrated 10/100Mbps Ethernet	Integrated 10/100Mbps Ethernet / Giga Ethernet
Audio	HD Audio-Realtek ALC262 CODEC	HD Audio-Realtek ALC262 CODEC
Internal Drives	Compact Flash Type I/II slot, Micro SD slot	SATA Slim DOM, Compact Flash Type I/II slot or SD slot
Touch Screen Type	Analog Resistive	
Expansion Slot	Wi-Fi Optional	
Power Requirement	+5VDC / +8~+35VDC (DC10~24V with Power Switch)	
Power Consumption	+5V@1.5A	+24VDC@0.7A
Operating Temperature	0 to +50°C (+32°F to +122°F) -20 to +60°C (-4 to +140°F) -30 to +70°C (-22 to +158°F)	0 to +50°C (+32°F to +122°F) -20 to +60°C (-4 to +140°F) -10 to +60°C (+14°F to +140°F)
Storage Temperature	0% to 90% Relative Humidity, Non-Condensing	
Operating Humidity	0% to 90% Relative Humidity, Non-Condensing	
Operating System	DOS, Linux, Windows CE, Windows XP, Windows 7 Embedded	
Dimensions	236.6 x 146 x 35 mm (9.31 x 5.75 x 1.38 inches)	242 x 156.5 x 44 mm (9.68 x 6.26 x 1.76 inches)
Weight	468g	1400g
Certificate	CE, FCC, VCCI, TUV, NRTL, Vibration, Shock, IP65 (Front Panel)	CE, FCC, VCCI, Vibration, Shock , IP65 (Front Panel)

ORDERING INFORMATION

PMX-090T-5A	9" Vortex86MX+ Panel PC w/1GB RAM / 2USB / Line-Out / LAN / 1COM / CF / MicroSD / Power Adapter
PMX-090T-8A	9" Vortex86MX+ Panel PC w/1GB RAM / 2USB / Line-Out / LAN / 1COM / CF / MicroSD
PPC-090T-D2N3N	9" Panel PC w/512MB Memory / 3USB / AUDIO / LAN / 2COM / DC12-24V
PPC-090T-D2N4N	9" Panel PC w/1GB Memory / 3USB / AUDIO / LAN / 2COM / DC12-24V
PPC-090T-D2N3N-GE	9" Panel PC w/512MB Memory / 3USB / AUDIO / LAN / GigaLAN / 2COM / DC12-24V
PPC-090T-D2N4N-GE	9" Panel PC w/1GB Memory / 3USB / AUDIO / LAN / GigaLAN / 2COM / DC12-24V
PPC-090T-D2W4N	9" Panel PC w/1GB Memory / 3USB / AUDIO / LAN / 2COM / DC12-24V / Wide Temp
PPC-090T-D2W4N-GE	9" Panel PC w/1GB Memory / 3USB / AUDIO / LAN / GigaLAN / 2COM / DC12-24V / Wide Temp

FEATURES

- 15" TFT LCD with Resistive Touchscreen
- DMP Vortex86DX2 CPU Onboard
- 512MB / 1GB / 2GB Memory Onboard
- Giga Ethernet Support
- RS-232/422/485 Port
- SATA SLIM / Compact Flash Type I/II
- Fanless and Low Power Consumption
- Metal Chassis with Compact Design



Technical Specification

MODEL	PPC-150T
LCD Display	Type
	Size
	Resolution (Pixel)
	Colors
	View Angle
	Brightness
	Backlight life
CPU	
	700 : 1
DMP Vortex86DX2 933MHz	
Cache	L1: 16KB I-Cache, 16KB D-Cache L2: 4-way, 256KB L2 Cache
Memory	512MB / 1GB / 2GB DDRII Onboard
Watchdog Timer	Software Programmable from 30.5u to 512 Seconds x 2 Sets
Serial Port	RS-232/422/485 x 2
USB Ports	USB Ports (Version 2.0) x 3
Ethernet	Integrated 10/100Mbps Ethernet / Giga Ethernet
Audio	HD Audio-Realtek ALC262 CODEC
Internal Drives	SATA Slim DOM, Compact Flash Type I/II slot or SD slot
Touch Screen Type	Analog Resistive
Expansion Slot	Wi-Fi Optional
Power Requirement	+12VDC / +24VDC
Power Consumption	+12VDC / +24VDC
Operating Temperature	+24VDC@0.7A
Storage Temperature	0°C to +50°C (+32°F to +122°F) / -20°C to +60°C (-4°F to +140°F)
Operating Humidity	-30°C to +70°C (-22°F to +158°F)
Operating System	0% to 90% Relative Humidity, Non-Condensing
Dimensions	DOS, Linux, Windows CE, Windows XP, Windows 7 Embedded
Weight	354.85 x 208.85 x 55 mm (13.97 x 8.22 x 2.16 inches)
Certificate	3.8 kg
	CE, FCC, VCCI, Vibration, Shock, IP65 (Front Panel)

ORDERING INFORMATION

PPC-150T-D2N3N	15" Panel PC w/512MB Memory / 3USB / AUDIO / LAN / 2COM / DC12-24V
PPC-150T-D2N4N	15" Panel PC w/1GB Memory / 3USB / AUDIO / LAN / 2COM / DC12-24V
PPC-150T-D2N3N-GE	15" Panel PC w/512MB Memory / 3USB / AUDIO / LAN / GigaLAN / 2COM / DC12-24V
PPC-150T-D2N4N-GE	15" Panel PC w/1GB Memory / 3USB / AUDIO / LAN / GigaLAN / 2COM / DC12-24V
PPC-150T-D2W4N	15" Panel PC w/1GB Memory / 3USB / AUDIO / LAN / 2COM / DC12-24V / Wide Temp
PPC-150T-D2W4N-GE	15" Panel PC w/1GB Memory / 3USB / AUDIO / LAN / GigaLAN / 2COM / DC12-24V / Wide Temp