

P156-2F Series

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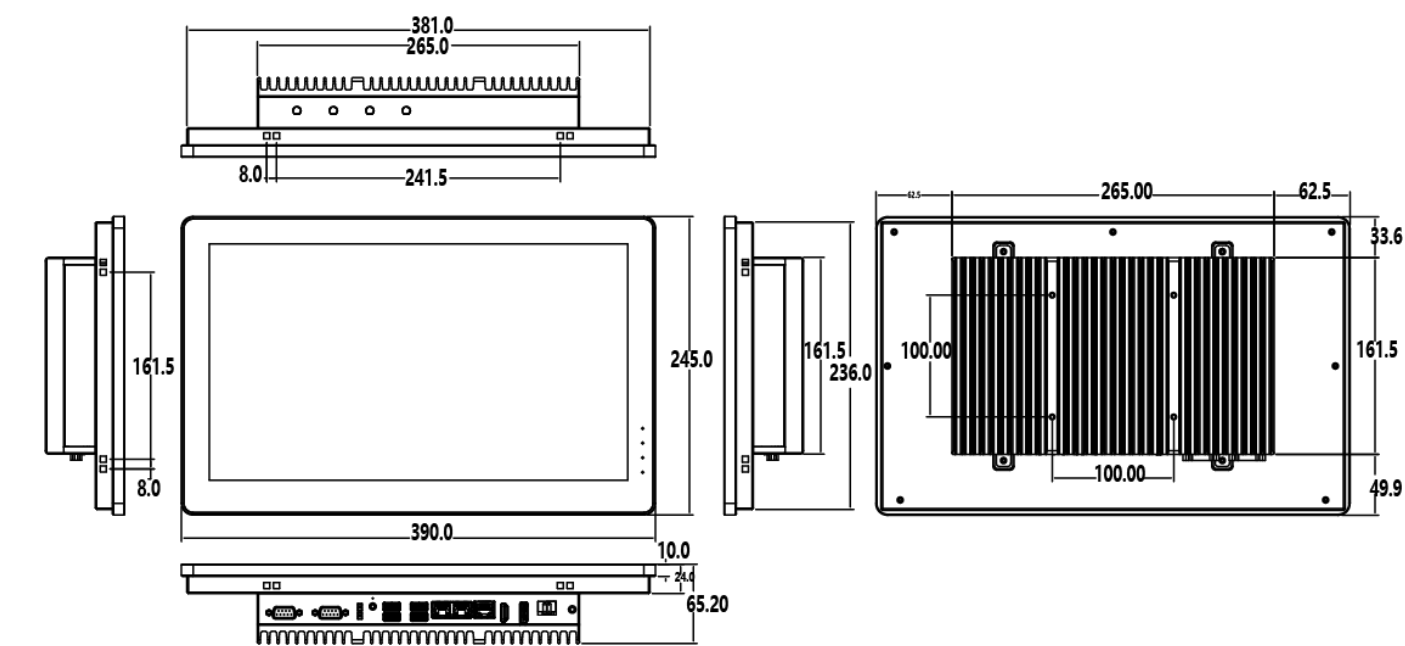
► Product Features

- Industrial grade 15.6" 1366*768/ 1920*1080 TFT LCD, 30K life, LED backlight
- Full plane with multi-touch projection capacitor control or 4-wire resistance single touch
- Intel® Atom® J6412/ N6210/ X6425E
- Dual channel DDR4 up to 64GB memory
- True flat touch screen with IP65 front panel protection
- Supports 4G/5G, Wi-Fi module expansion
- 3 LAN (2 x Intel i210 supports PoE, 1 x Intel i226)
- 2 USB 3.0, 2 USB 2.0
- 1 RS-232/422/485, 1 RS-232
- DC 9-36V, Optional UPS module
- CE/FCC Class B, ESD 8KV/15KV
- Compact fanless design, aluminum alloy front panel and housing ground protection
- Supports VESA/ Embedded installation
- Windows 10/11, Centos 8, Ubuntu 20.04/22.04

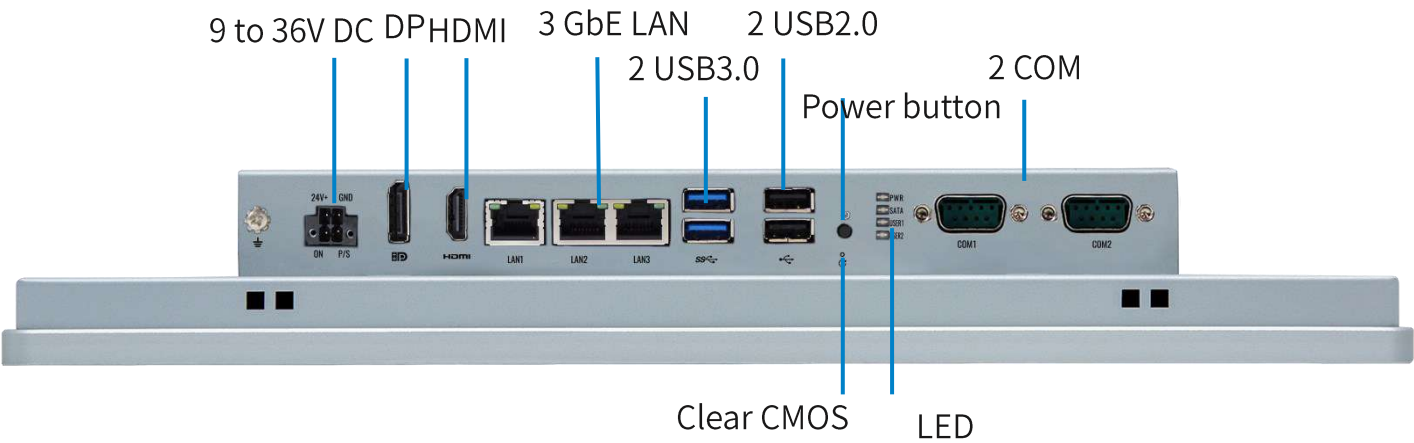
► Technical Specifications

P156-2F Series			
Processor System	CPU	Intel® Atom® J6412/ N6210/ X6425E	
	TDP	12W	
	BIOS	AMI 128Mbit SPI Flash	
Graphics	Controller	Intel Gen11 Graphics Engines (SoC integrated)	
	Feature	DX12, OGL4.5, OCL1.2, Vulkan 1.1, MPEG2, H.264, JPEG/MJPEG, H.265 (HEVC)	
Memory	Technology	2 x DDR4	
	Max. capacity	64 GB	
Storage	M.2 M-Key	1 x M.2 2280 SATA3.0	
LCD	Type	HD (Capacitance)	FHD (Capacitance) FHD (Resistance)
	Size	15.6" (16: 9)	15.6" (16: 9) 15.6" (16: 9)
	Max. Resolution	1366 x 768	1920 x 1080 1920 x 1080
	Max. Color	262K	16.2M 16.2M
	Brightness cd/m²	220	300 300
	View Angle (H/V°)	178°/178°	178°/178° 178°/178°
	Backlight life	15,000 hrs	30,000 hrs 30,000 hrs
	Contrast Ratio	400: 1	1000:1 1000:1
Screen	Capacitive Touch	Light transmittance	≥85%
		Contact	10-point
		Type	Projective capacitance
	Resistive Touch	Lifetime	1 million single touches
		Light transmittance	About 78%
		Resolution	Linear
External I/O	DP	1 x DP1.4, resolution up to 4096 x 2160@60Hz	
	Ethernet	2 x Intel i210 supports PoE, 1 x Intel i226	
	USB	2 x USB 3.0, 2 x USB2.0	
	Serial Port (Optional)	1 RS-232/422/485, 1 RS-232	
	Power Connector	4-pin Phoenix terminal, supports remote switch	
LED & Switch	LED Indicator	Power, SATA, User-defined 1, User-defined 2	
	Power Button	1 x Power Button	
	Reset	1 x Reset	
Inside Connectors	M.2 E-Key	1 x M.2 2230 supports Wi-Fi (Supports PCIe protocol)	
	M.2 B-Key	1 x M.2 3052 supports 4G/5G	
	SIM	1 x Nano SIM	
	UPS	1 x UPS (Optional)	
Power Supply	Power Input	DC 9-36V ±10%	
	Max. Consumption	60W	
	Power Management	AT/ATX	
Others	Watchdog	Interruption and system reset are programmable for 1 to 255 min/sec	
	TPM	TPM 2.0 (Optional)	
Environment	Operating Temperature	0 to 60 °C(32 to 140°F)	
	Storage Temperature	-40°C to 85°C(-40 to 185°F)	
	Operating Humidity	95% @ 40 °C (Non-condensing)	
	Storage Humidity	95% @ 60 °C (Non-condensing)	
Physical characteristics	Dimension	390 x 245 x 65.2 mm (L x W x H)	
	Weight	3.5 kg	
	Installation	VESA/Embedded	
Certification	EMC	CE, FCC	
OS	OS	Windows 10/11, Centos 8, Ubuntu 20.04/22.04	

► Product Dimension



► Product Interfaces



► Ordering Information

Model	Screen Size	Screen Type	CPU	Turbo Frequency	TDP	Core/Thread	LAN	CO M	USB3 .0	USB2 .0	DP	Power
P156F-1000	15.6"	1366x768Capacitive touch	N6210	3.00 GHz	6.5 W	2C/2T	3(Optional 2 PoE)	2	2	2	1	9 to 36V DC
P156F-1000	15.6"	1920x1080Capacitive touch	N6210	3.00 GHz	6.5 W	2C/2T	3(Optional 2 PoE)	2	2	2	1	9 to 36V DC
P156F-2000	15.6"	1366x768Capacitive touch	J6412	2.60 GHz	10W	4C/4T	3(Optional 2 PoE)	2	2	2	1	9 to 36V DC
P156F-2000	15.6"	1920x1080Capacitive touch	J6412	2.60 GHz	10W	4C/4T	3(Optional 2 PoE)	2	2	2	1	9 to 36V DC
P156F-3000	15.6"	1366x768Capacitive touch	X6425E	3.00 GHz	12W	4C/4T	3(Optional 2 PoE)	2	2	2	1	9 to 36V DC
P156F-3000	15.6"	1920x1080Capacitive touch	X6425E	3.00 GHz	12W	4C/4T	3(Optional 2 PoE)	2	2	2	1	9 to 36V DC

► Optional Accessories

Part Number	Description
-	Wi-Fi+BT module, M.2 2230 WIFI6 2T2R AW-XB547NF
MF0A000000000016	5G module, M.2 RM500Q-GL Sub-6GHz Worldwide (Excluding the US)
MF0A000000000042	5G LTE module, M.2 RM520NGLAA-M20-SGASA, Worldwide
MF0A000000000066	5G LTE module, M.2 RM500UCNVAA-D10-SNADA EMEA, Asia-Pacific
MF0A000000000036	4G LTE module, M.2 EM05CEFC-128-SGAS, China
82UPS000000000002	Internal UPS module

► Packing List

Part Number	Description	Quantity
-	P156-2F Series All-in-One PC	1
MC0A000000000019	All-in-one fixed hook accessories set	1
ZM0A000000000020	Three-plug power cord	1
ZM0A000000000058	24V 2.5A power adaptor with 4-pin Phoenix terminal	1