

DM-1XXP/PM-2000

Arestech

Modular Industrial Panel PC with Intel® Atom or Celeron® Processor



Display Module (DM-1XXP)

PC Module (PM-2000)

Panel PC (DM-1XXP/PM-2000)

Key Features

- Onboard Intel® Celeron® Processor J1900, up to 2.42GHz
- Patented Display Conversion Device (DCD) Technology
- IP65 True Flat Front Panel
- Aluminum Die-casting Ultra-thin Bezel
- Built-in Power Protection (OVP / OCP / RVP)
- 9~48V DC Input with Power Ignition Function

Applications

- Factory Automation
- Vending / Ticketing Machines
- Human Machine Interface (HMI)
- Production Line Automation
- ATM / Self-Service / Kiosk

→ Ordering Information

Part No.	Description
DM-110P/PM-2000	10.4" 4:3 (1024 x 768), 500 nits, Fanless Panel PC with Intel® Celeron® J1900 Quad-core Processor, Projected Capacitive Touch, 1x USB3.2 Gen 2, 4x USB2.0, 2x RS232/422/485, 2x GbE, 1x DP, 1x VGA, 2x 2W Speakers, Line Out, Mic In, DC 9~48V, Phoenix Connector
DM-112P/PM-2000	12.1" 4:3 (1024 x 768), 600nits, Fanless Panel PC with Intel® Celeron® J1900 Quad-core Processor, Projected Capacitive Touch, 1x USB3.2 Gen 2, 4x USB2.0, 2x RS232/422/485, 2x GbE, 1x DP, 1x VGA, 2x 2W Speakers, Line Out, Mic In, DC 9~48V, Phoenix Connector
DM-115P/PM-2000	15" 4:3 (1024 x 768), 350nits, Fanless Panel PC with Intel® Celeron® J1900 Quad-core Processor, Projected Capacitive Touch, 1x USB3.2 Gen 2, 4x USB2.0, 2x RS232/422/485, 2x GbE, 1x DP, 1x VGA, 2x 2W Speakers, Line Out, Mic In, DC 9~48V, Phoenix Connector
DM-115PW/PM-2000	15.6" 16:9 (1920 x 1080), 450nits, Fanless Panel PC with Intel® Celeron® J1900 Quad-core Processor, Projected Capacitive Touch, 1x USB3.2 Gen 2, 4x USB2.0, 2x RS232/422/485, 2x GbE, 1x DP, 1x VGA, 2x 2W Speakers, Line Out, Mic In, DC 9~48V, Phoenix Connector
DM-117P/PM-2000	17" 5:4 (1024 x 768), 350nits, Fanless Panel PC with Intel® Celeron® J1900 Quad-core Processor, Projected Capacitive Touch, 1x USB3.2 Gen 2, 4x USB2.0, 2x RS232/422/485, 2x GbE, 1x DP, 1x VGA, 2x 2W Speakers, Line Out, Mic In, DC 9~48V, Phoenix Connector
DM-119P/PM-2000	19" 5:4 (1280 x 1024), 350nits, Fanless Panel PC with Intel® Celeron® J1900 Quad-core Processor, Projected Capacitive Touch, 1x USB3.2 Gen 2, 4x USB2.0, 2x RS232/422/485, 2x GbE, 1x DP, 1x VGA, 2x 2W Speakers, Line Out, Mic In, DC 9~48V, Phoenix Connector
DM-121PW/PM-2000	21.5" 16:9 (1920 x 1080), 300nits, Fanless Panel PC with Intel® Celeron® J1900 Quad-core Processor, Projected Capacitive Touch, 1x USB3.2 Gen 2, 4x USB2.0, 2x RS232/422/485, 2x GbE, 1x DP, 1x VGA, 2x 2W Speakers, Line Out, Mic In, DC 9~48V, Phoenix Connector
DM-124PW/PM-2000	24" 16:9 (1920 x 1080), 300nits, Fanless Panel PC with Intel® Celeron® J1900 Quad-core Processor, Projected Capacitive Touch, 1x USB3.2 Gen 2, 4x USB2.0, 2x RS232/422/485, 2x GbE, 1x DP, 1x VGA, 2x 2W Speakers, Line Out, Mic In, DC 9~48V, Phoenix Connector

→ Packing List

Description
1 x DM-1XXP(W)/PM-2000
Panel Mount Kits
Screw Pack

→ Optional Items

Part No.	Description
AWD-4G003	4G(LTE) EG25-G + 2 Antennas, Full Size (For Global)
AWD-WF001	Wi-Fi 802.11 bgn (1T1R) + 1 Antenna (Single Band), Half-size miniPCle
AWD-WF003	Wi-Fi 802.11 a/b/g/n/ac/BT4.0 (2T2R) + 2 Antennas (Dual Band), Half-size mini PCle
55000-0025-M5	Adapter AC/DC 12V 5A 60W GST60A12-GAV with 3-pin Terminal Block Plug 5.0mm Pitch
30100-0003-CA	Power Cord, 3-pin US Type, 180cm
30101-0005-CA	Power Cord, 3-pin EU Type, 180 cm

→ Specifications: Display Modules

Model		DM-110P	DM-112P	DM-115P	DM-115PW
Panel	Panel Size	10.4"	12.1"	15"	15.6"
	Panel Type	LCD Panel			
	Aspect Ratio	4:3	4:3	4:3	16:9
	Resolution	XGA (1024 x 768)	XGA (1024x768)	XGA (1024x768)	FHD (1920x1080)
	Viewing Angle	176 (H) x 176 (V)	178 (H) x 178 (V)	176 (H) x 176 (V)	170 (H) x 170 (V)
	Brightness	500 cd/m2	600 cd/m2	350 cd/m2	450 cd/m2
	Contrast Ratio	1000 : 1	1000 : 1	2500:1	800:1
	Color Support	16.2 M			
Touchscreen	Touchscreen Type	Projected Capacitive			
	Surface Hardness	7 Mohs			
	Durability	N/A			
	Transparency	90% (±3%)			
	Remote	1x Remote Power On/Off Connector, 2-pin Terminal Block 3.5mm 1x Remote OSD Connector			
	Speaker	2x 2W Internal Speakers			
OSD Control	Function Keys	Touch Monitor On/Off, Auto, Menu, Up and Down, Multi-language OSD			
Mounting	Type	Panel Mount / VESA Mount (100 x 100 mm) / Wall Mount (Optional)			
Environment	Operating Temperature	-20°C to 70°C (-4~158° F)			
	Storage Temperature	-30°C to 80°C (-22~176° F)			
	Humidity	10 ~ 80% (Non-condensing)			
	Vibration	1.5 Grms, 5-500 Hz, 3 Axis			
	Shock	20 Grms, Half-sine 11 ms			
Environment	Certification	CE / FCC			
	Ingress Protection	IP 65 Compliant Front Panel			
	Material	Front Panel Construction: Die-casting Flat Surface			
	Dimensions (W x H x D)	280.6 x 227.9 x 74.5mm (11.05" x 8.97" x 2.93")	327.5 x 262x 75.5 mm (12.89" x 10.31" x 2.97")	377 x 301 x 76 mm (14.84" x 11.85" x 2.99")	393 x 254 x 76.5 mm (15.47" x 10" x 3.01")
	Net Weight	2.45 kg (5.40 lb)	2.85 kg (6.28 lb)	4.05 kg (8.92 lb)	3.85 kg (8.48 lb)

Model		DM-117P	DM-119P	DM-121PW	DM-124PW
Panel	Panel Size	17"	19"	21.5"	24"
	Panel Type	LCD Panel			
	Aspect Ratio	5:4	5:4	16:9	16:9
	Resolution	SXGA (1280 x 1024)	SXGA (1280 x 1024)	FHD (1920 x 1080)	FHD (1920x1080)
	Viewing Angle	170 (H) x 170 (V)	170 (H) x 160 (V)	178 (H) x 178 (V)	178 (H) x 178 (V)
	Brightness	350 cd/m2	350 cd/m2	300 cd/m2	300 cd/m2
	Contrast Ratio	800 : 1	1000 : 1	5000:1	5000:1
	Color Support	16.7 M			
Touchscreen	Touchscreen Type	Projected Capacitive			
	Surface Hardness	7 Mohs			
	Durability	N/A			
	Transparency	90% (±3%)			
	Remote	1x Remote Power On/Off Connector, 2-pin Terminal Block 3.5mm 1x Remote OSD Connector			
	Speaker	2x 2W Internal Speakers			
OSD Control	Function Keys	Touch Monitor On/Off, Auto, Menu, Up and Down, Multi-language OSD			
Mounting	Type	Panel Mount / VESA Mount (100 x 100 mm) / Wall Mount (Optional)			
Environment	Operating Temperature	-20°C to 70°C (-4~158° F)	-10~50 (14~122° F)	-10~60 (14~140° F)	-20°C to 70°C (-4~158° F)
	Storage Temperature	-30°C to 80°C (-22~176° F)	-20~60 (-4~140° F)	-20~70 (-4~158° F)	-30°C to 80°C (-22~176° F)
	Humidity	10 ~ 80% (Non-condensing)			
	Vibration	1.5 Grms, 5-500 Hz, 3 Axis			
	Shock	20 Grms, Half-sine 11 ms			
Environment	Certification	CE / FCC			
	Ingress Protection	IP 65 Compliant Front Panel			
	Material	Front Panel Construction: Die-casting Flat Surface			
	Dimensions (W x H x D)	407.3 x 338.7 x 77mm (16.04" x 13.33" x 3.03")	449.7 x 374.4 x 77 mm (17.7" x 14.74" x 3.03")	527 x 323 x 77 mm (20.75" x 12.72" x 3.03")	584 x 353 x 82 mm (22.99" x 13.9" x 3.23")
	Net Weight	4.85 kg (10.69 lb)	5.85 kg (12.89 lb)	6.05 kg (13.33 lb)	8.1 kg (17.85 lb)

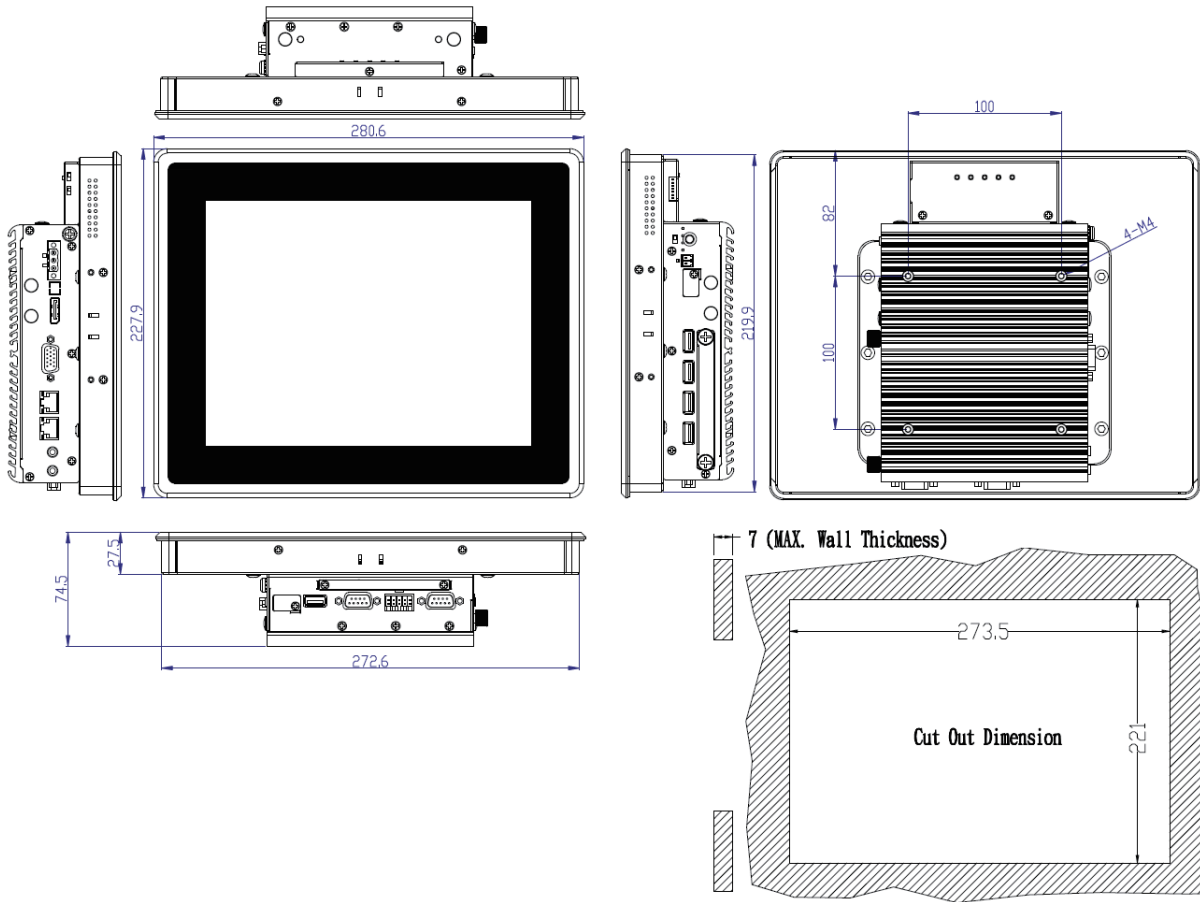
→ Specifications: PC Module

	Model	PM-2000		
Processor System	CPU	Intel® Celeron® J1900 Quad Core Processor		
	Frequency	Up to 2.42 GHz		
	System Chipset	N/A		
	Cache	2 MB		
	BIOS	AMI BIOS, 64Mbit SPI Flash ROM Built on Board		
Memory	Technology	Single Channel DDR3L-1066/1333MHz 204-Pin SO-DIMM Socket		
	Max. Capacity	Up to 8 GB (Un-buffered and Non-ECC)		
	Type	Socket		
Display	HDMI	N/A		
	DP	1x DP (1920 x 1200)		
	VGA	1x VGA (2560 x 1600)		
	DVI	N/A		
I/O Interface	USB	1x USB 3.2 Gen 2 and 4x USB 2.0		
	Serial Port	2x RS232/422/485 with Auto Flow Control, DB9		
	Ethernet	2 x GbE (2 x Intel® i210-AT GbE, Supporting Wake-on-LAN and PXE)		
	Audio	Line Out , Mic In (Phone Jack 3.5mm)		
	GPIO / DIO	4x Isolated DI and 4x Isolated DO Ports, 10-pin Terminal Block		
	Antenna Hole	6		
Others	External Switch	1x Power On/Off Button		
		1x AT/ATX Mode Switch		
		1x PC/Car Mode Switch		
		1x Clear CMOS Switch		
Storage	2.5" HDD / SSD	1x Removable 2.5" SATA HDD Bay		
	M.2	N/A		
	mSATA	1x mSATA Socket (Mux with 1x Mini-PCle and CFast)		
	RAID	N/A		
Expansion	Mini PCIe	1x Full-size Mini-PCle Socket (Mux with mSATA), 1x Full-size Mini-PCle Socket		
	M.2	N/A		
	PCI / PCIe	N/A		
	SIM Holder	2x SIM Sockets		
Power	Power Mode	Supports Hardware AT, ATX Power Mode		
	Power Supply Voltage	9~48V DC Input		
	Power Connector Type	1x 3-pin Terminal Block Connector		
	Power Ignition	Power Ignition Sensing		
	Power Adapter	1x Optional AC/DC 12V/5A, 60W Power Adapter		
Mounting	Protection	Over Voltage Protection (OVP) up to 52V		
		Reverse Voltage Protection (RVP) up to -48V		
		Over Current Protection (OCP) 20A		
		Type	VESA Mount (100mm x 100mm) / Wall Mount	
		Environment	Operating Temperature	-40~70 (-40~158° F)
			Storage Temperature	-40~80 (-40~176° F)
Humidity	10%~95% (Non-condensing)			
Vibration	5 Grms, 5-500 Hz, 3 Axis			
Shock	50 Grms, Half-sine 11 ms			
General	Certification		CE/FCC	
	Thermal Dissipation	Fanless System		
	Ingress Protection	N/A		
	Material	Extruded Aluminum with Heavy Duty Metal		
	Dimensions (W x H x D)	168 x 47 x 135mm (6.61" x 1.85" x 5.31")		
	Net Weight	1.15 kg (2.53 lb)		
Operating System	Windows 10 (IoT/Professional), Linux			

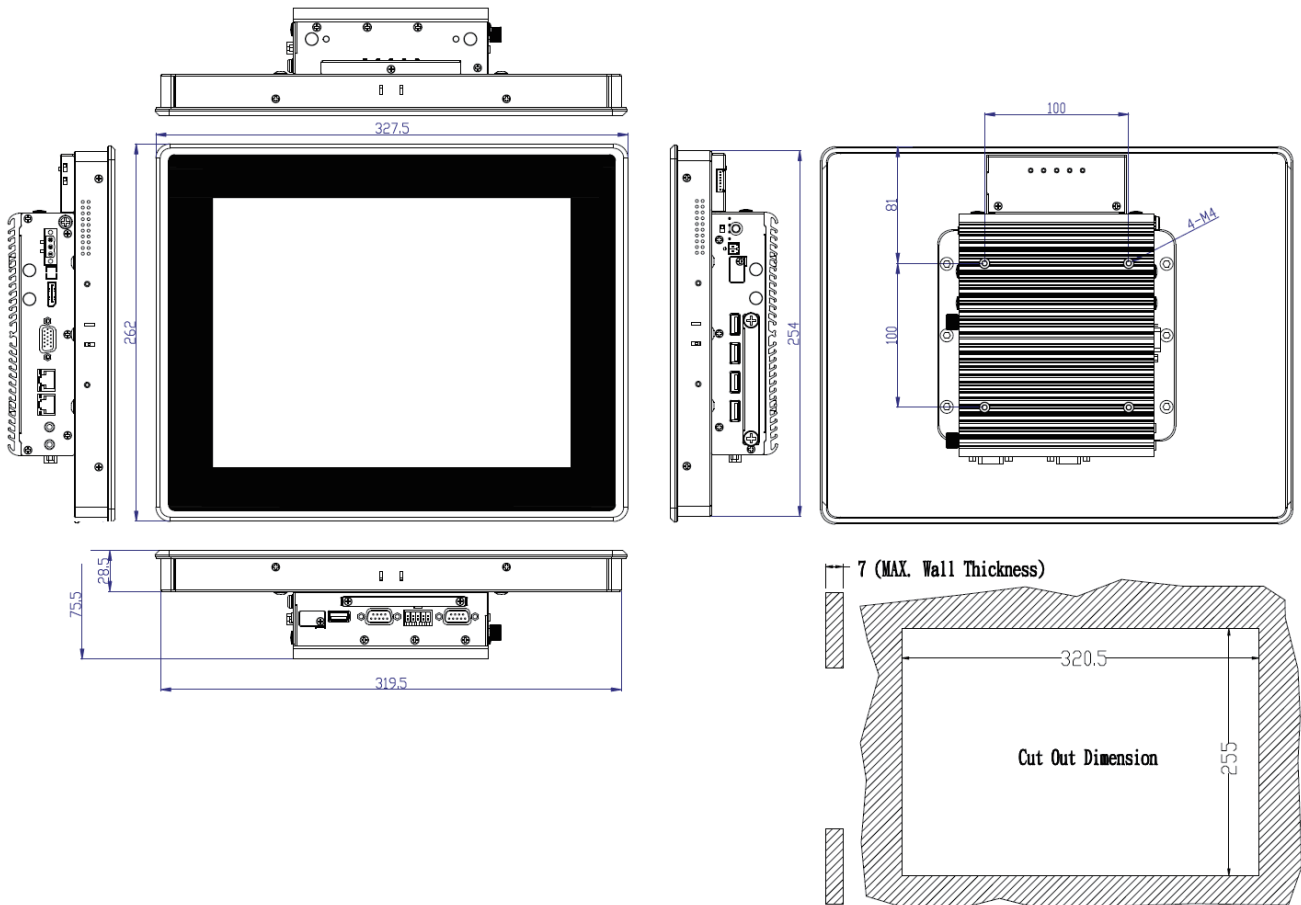
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→ Dimensions

DM-110P/PM-2000



DM-112P/PM-2000

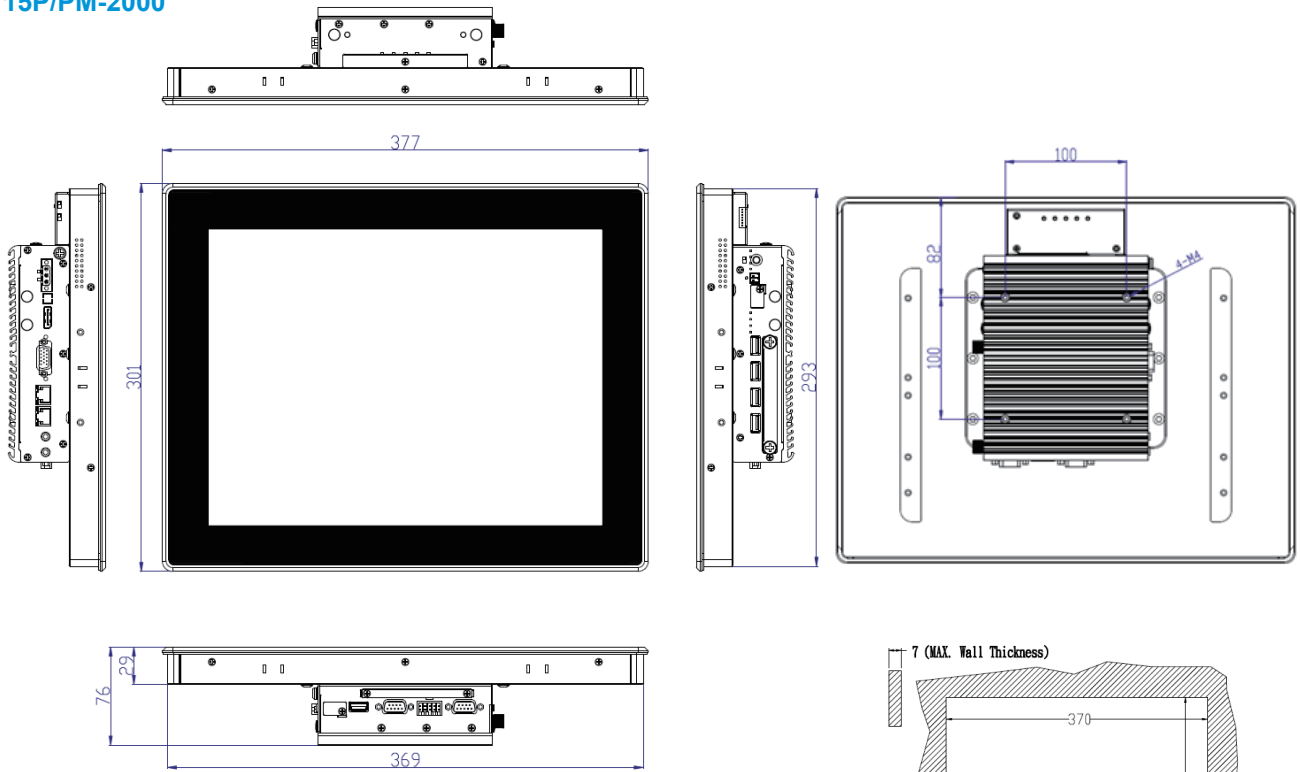


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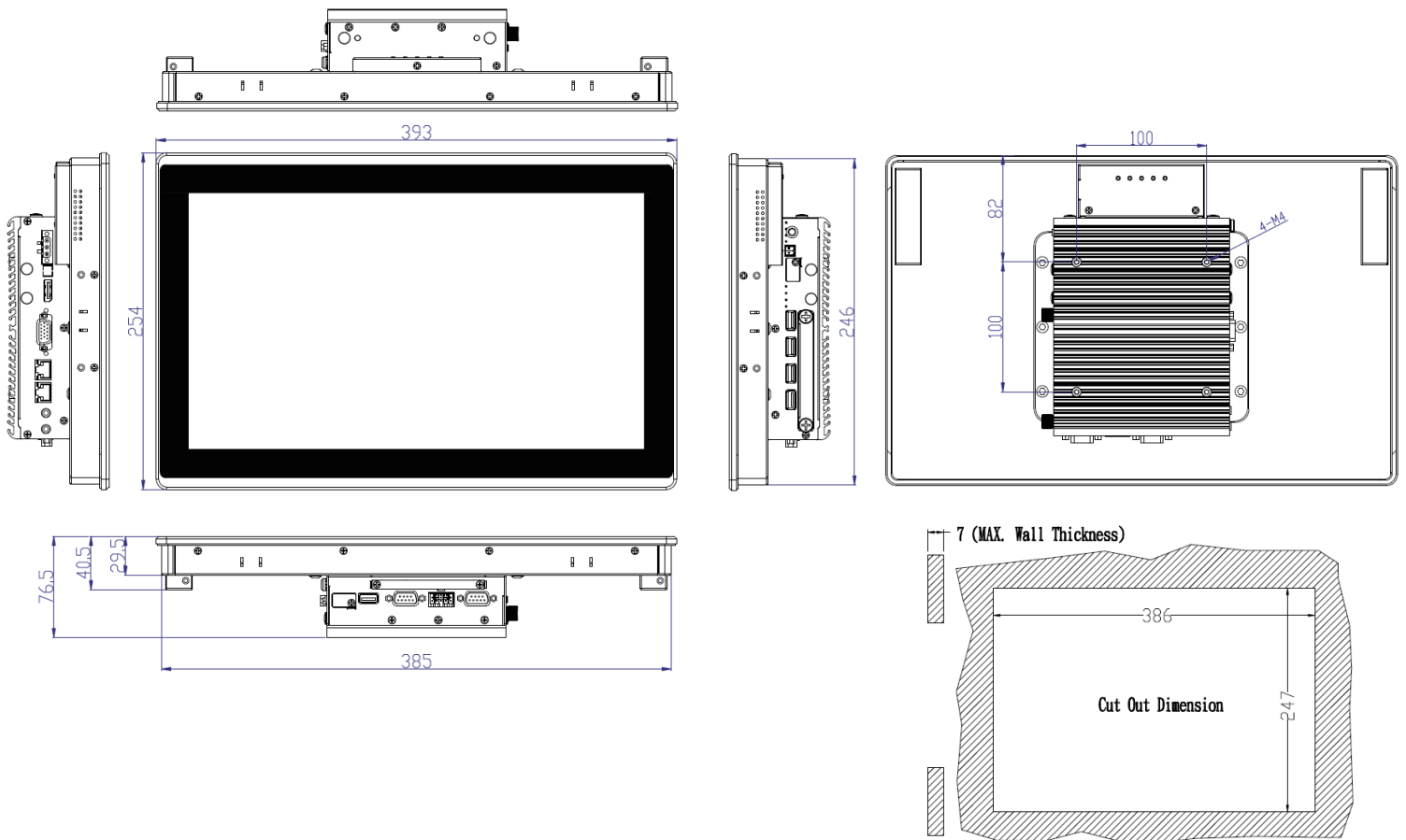
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→ Dimensions

DM-115P/PM-2000



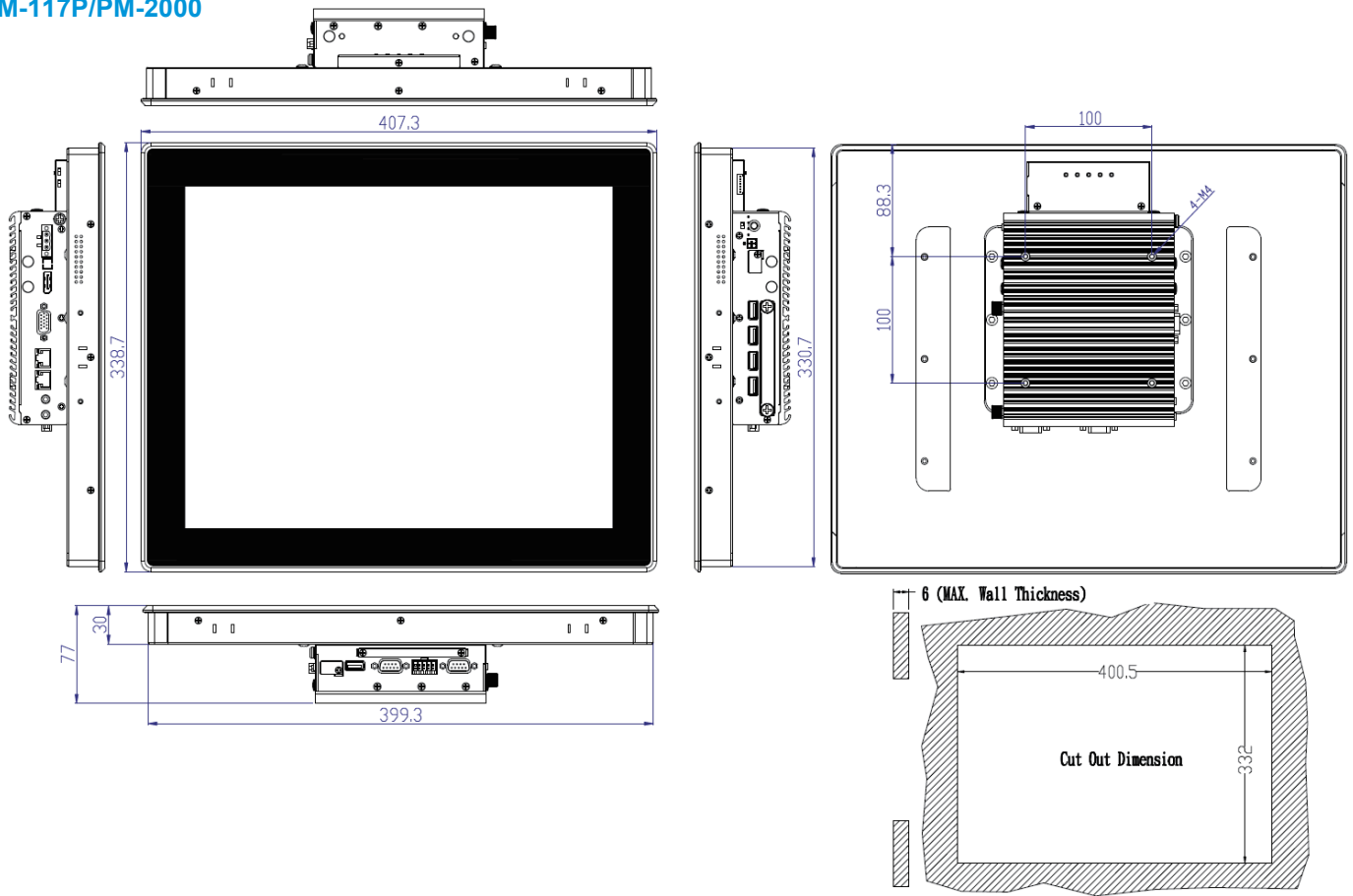
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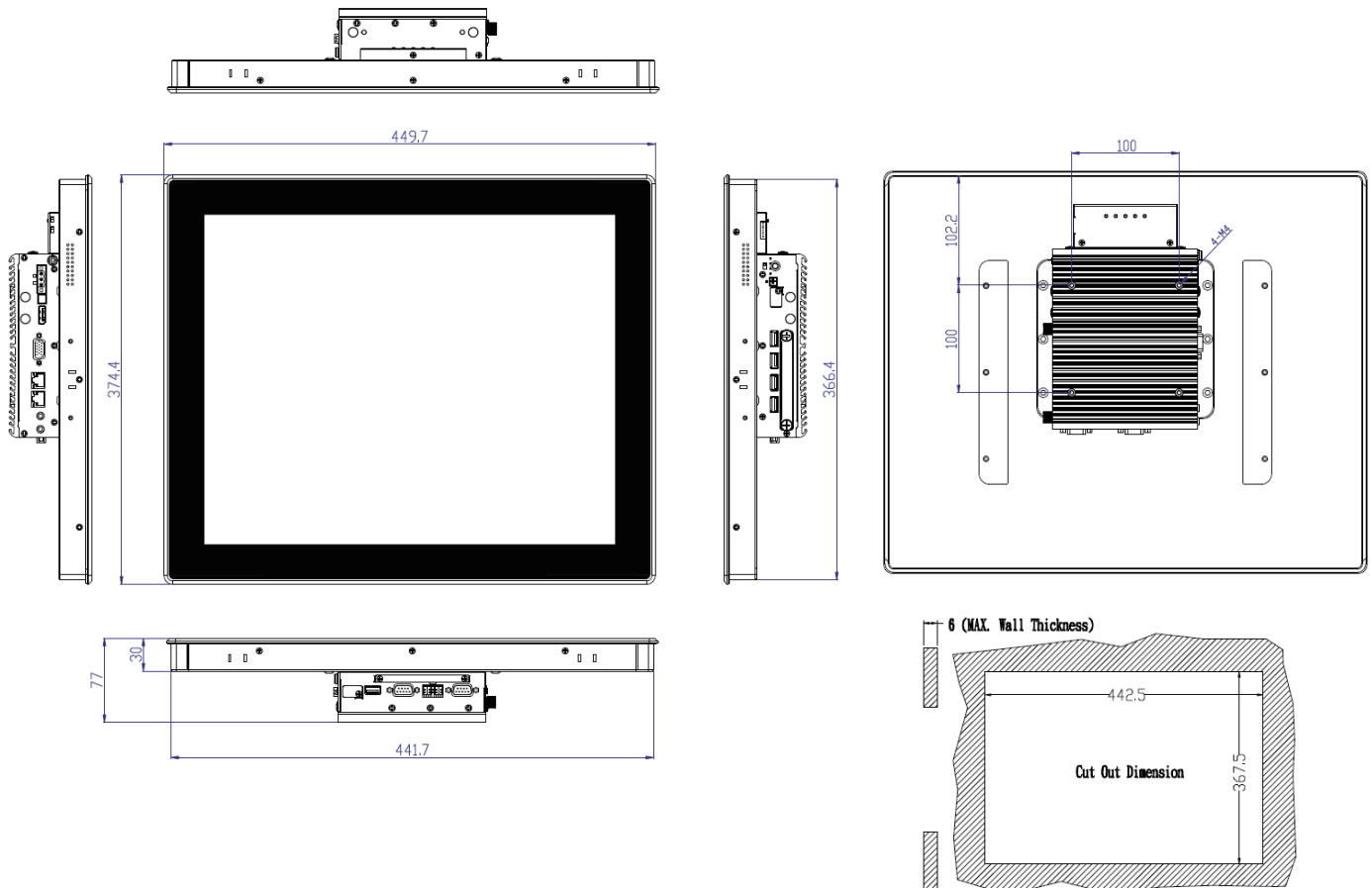
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→ Dimensions

DM-117P/PM-2000



DM-119P/PM-2000

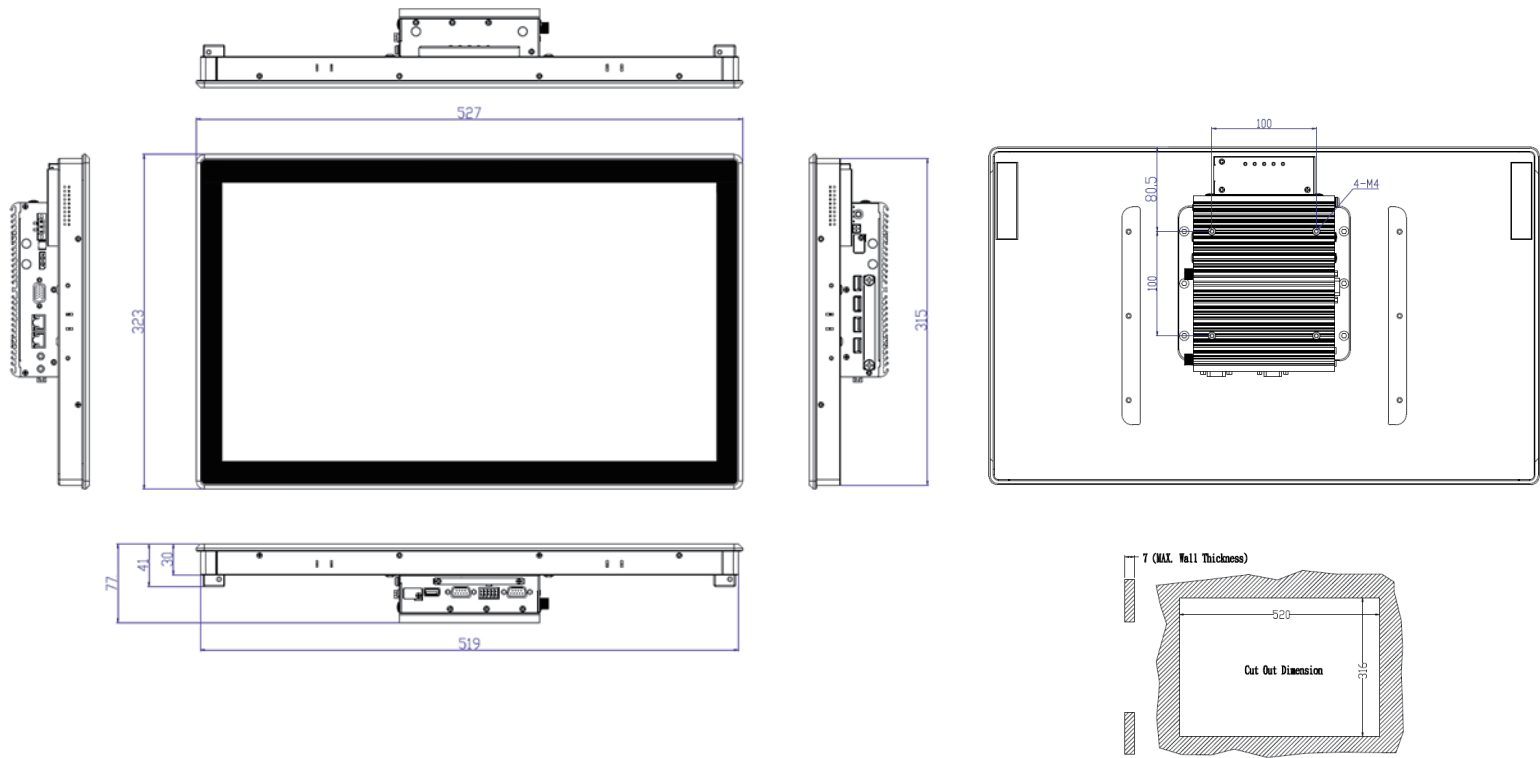


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→ Dimensions

DM-121PW/PM-2000



DM-124PW/PM-2000

