

DM-1XXP/PM-3100

Arestech

Modular Industrial Panel PC with Intel® Q370 9th / 8th Core™ i3 / i5 / i7 Processor



Display Module (DM-1XXP)

PC Module (PM-3100)

Panel PC (DM-1XXP/PM-3100)

Key Features

- Supports 9th / 8th Gen Intel® Core™-i LGA 1151 Processors
- 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
- Motion Control
- Machine Vision
- Production Line Automation
- Digital Surveillance

Ordering Information

Part No.	Description
DM-115P/PM-3100	15" 4:3 (1024 x 768), 350 nits, Fanless Panel PC with Intel® 9th/8th Gen. Core™ i LGA1151 Processor, Projected Capacitive Touch, 6x USB3.2 Gen 2x2, 2x USB2.0, 6x RS232/422/485, 3x GbE, 1x DP, 1x VGA, 1x DVI-D, Line Out, Mic In, DC 9-48V, Phoenix Connector
DM-117P/PM-3100	17" 5:4 (1280 x 1024), 350 nits, Fanless Panel PC with Intel® 9th/8th Gen. Core™ i LGA1151 Processor, Projected Capacitive Touch, 6x USB3.2 Gen 2x2, 2x USB2.0, 6x RS232/422/485, 3x GbE, 1x DP, 1x VGA, 1x DVI-D, Line Out, Mic In, DC 9-48V, Phoenix Connector
DM-119P/PM-3100	19" 5:4 (1280 x 1024), 350 nits, Fanless Panel PC with Intel® 9th/8th Gen. Core™ i LGA1151 Processor, Projected Capacitive Touch, 6x USB3.2 Gen 2x2, 2x USB2.0, 6x RS232/422/485, 3x GbE, 1x DP, 1x VGA, 1x DVI-D, Line Out, Mic In, DC 9-48V, Phoenix Connector
DM-121PW/PM-3100	21.5" 16:9 (1920 x 1080), 300 nits, Fanless Panel PC with Intel® 9th/8th Gen. Core™ i LGA1151 Processor, Projected Capacitive Touch, 6x USB3.2 Gen 2x2, 2x USB2.0, 6x RS232/422/485, 3x GbE, 1x DP, 1x VGA, 1x DVI-D, Line Out, Mic In, DC 9-48V, Phoenix Connector
DM-124PW/PM-3100	24" 16:9 (1920 x 1080), 300 nits, Fanless Panel PC with Intel® 9th/8th Gen. Core™ i LGA1151 Processor, Projected Capacitive Touch, 6x USB3.2 Gen 2x2, 2x USB2.0, 6x RS232/422/485, 3x GbE, 1x DP, 1x VGA, 1x DVI-D, Line Out, Mic In, DC 9-48V, Phoenix Connector

Packing List

Description
1 x DM-1XXP(W)/PM-3100
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 miniPCIe
AWD-WF003	Wi-Fi 802.11 a/b/g/n/ac/BT4.0 (2T2R) + 2 Antennas (Dual Band), Half-size mini PCIe
i7-9700TE	Intel® Core™ i7-9700TE (8-core, up to 3.8 GHz, 35W TDP)
i5-9500TE	Intel® Core™ i5-9500TE (6-core, up to 3.6 GHz, 35W TDP)
i7-8700T	Intel® Core™ i7-8700T (6-core, up to 4.0 GHz, 35W TDP)
i5-8500T	Intel® Core™ i5-8500T (6-core, up to 3.5 GHz, 35W TDP)
i3-8100T	Intel® Core™ i3-8100T (4-core, up to 3.1 GHz, 35W TDP)
External Fan	External Fan Module Kit (92 x 92 x 25 mm) (for 65W CPU Option)
55000-0023-M5	Adapter AC/DC 24V 5A 120W, 3-pin Terminal Block Plug 5.0mm Pitch
55000-0024-M5	Adapter AC/DC 24V 9.2A 220W, 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

DM-1XXP/PM-3100

→ Specifications: Display Modules

Model		DM-115P	DM-117P	DM-119P	DM-121PW	DM-124PW
Panel	Panel Size	15"	17"	19"	21.5"	24"
	Panel Type	LCD Panel				
	Aspect Ratio	4:3	5:4	5:4	16:9	16:9
	Resolution	XGA (1024x768)	SXGA (1280 x 1024)	SXGA (1280 x 1024)	FHD (1920 x 1080)	FHD (1920x1080)
	Viewing Angle	176 (H) x 176 (V)	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	350 cd/m2	300 cd/m2	300 cd/m2
	Contrast Ratio	2500:1	800 : 1	1000 : 1	5000:1	5000:1
	Color Support	16.2 M	16.7 M	16.7 M	16.7 M	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 Mounting Holes (100 x 100 mm) / Wall Mount (Optional)				
Environment	Operating Temperature	-20°C to 70°C (-4-158° F)	-20°C to 70°C (-4-158° F)	-10°C-50°C (14-122° F)	-10°C-60°C (14-140° F)	-20°C to 70°C (-4-158° F)
	Storage Temperature	-30°C to 80°C (-22-176° F)	-30°C to 80°C (-22-176° F)	-20°C-60°C (-4-140° F)	-20°C-70°C (-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)	377 x 301 x 101.5 mm (14.84" x 11.85" x 4")	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	4kg (8.8 lb)	4.85 kg (10.69 lb)	5.85 kg (12.89 lb)	6.05 kg (13.33 lb)	8.1 kg (17.85 lb)

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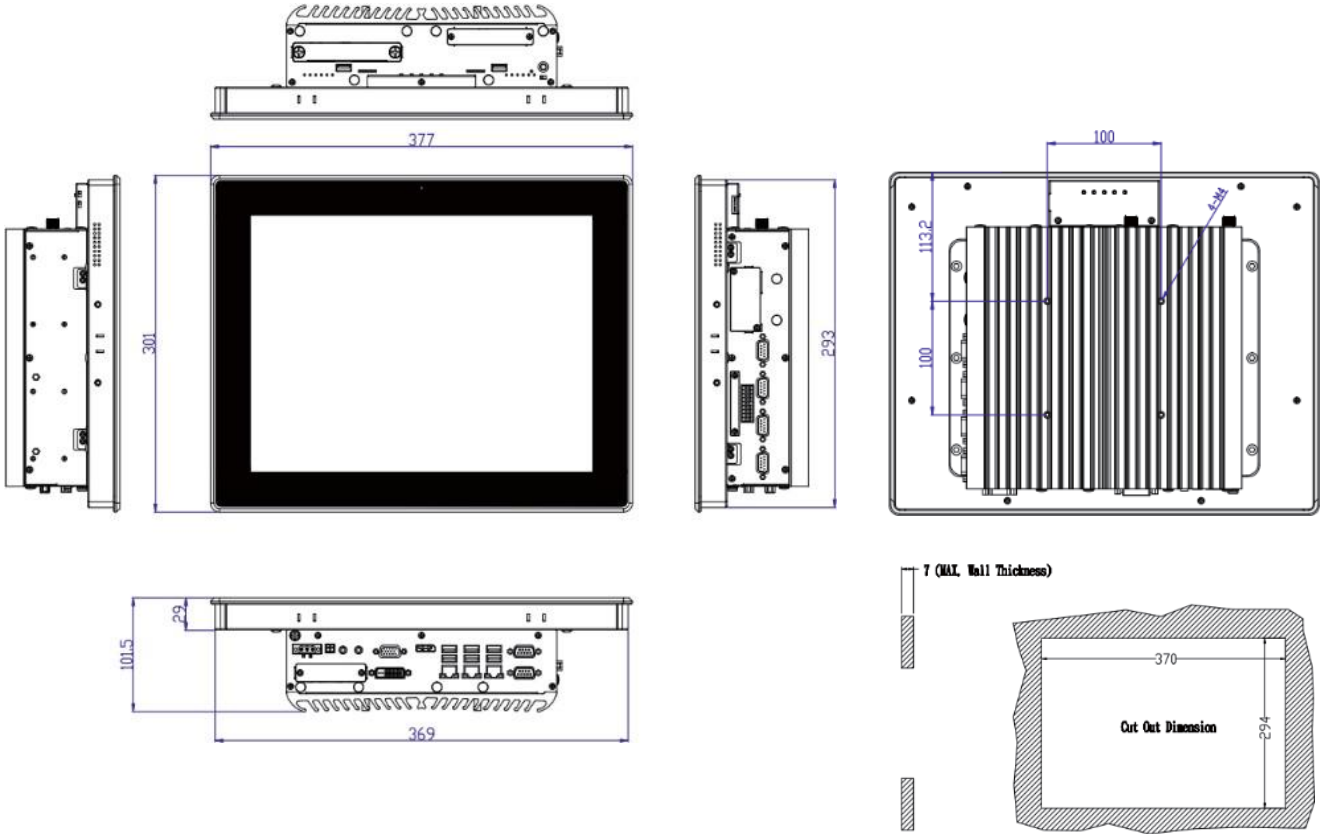
→ Specifications: PC Module

Model		PM-3100
Processor System	CPU	Supports 9th/ 8th Intel® Core™ i3 / i5 / i7 Desktop 35W LGA 1151 Processors
	System Chipset	Intel® Q370
	BIOS	AMI BIOS, 64Mbit SPI Flash ROM Built On Board
Memory	Technology	2x DDR4-2400/2666MHz 260-Pin SO-DIMM Socket
	Max. Capacity	Supports up to 64GB (Un-buffered and Non-ECC)
	Type	Socket
Display	HDMI	N/A
	DP	1x DP (4096 x 2160)
	VGA	1x VGA (1920 x 1200)
	DVI	1x DVI-D (1920 x 1200)
I/O Interface	USB	8x USB (6x USB3.1, 2x USB2.0)
	Serial Port	6x RS232/422/485 with Auto Flow Control, DB9
	Ethernet	3x GbE (1x Intel® i219-LM, 2x Intel® i210-AT GbE, Supporting Wake-on-LAN and PXE)
	Audio	Line Out, Mic In (Phone Jack 3.5mm)
	GPIO / DIO	8x Isolated DI and 8x Isolated DO Ports, 2x9-pin Terminal Block
	Antenna Hole	10x Antenna Holes
Others	External Switch	1x Power On/Off Button, 1x Remote Power On/Off Connector, 2-pin Terminal Block
		1x AT/ATX Mode Switch
1x PC/Car Mode Switch		
1x Clear CMOS Switch, 1x Removable CMOS Battery		
Bracket	1x Flexible I/O Window Slot	
Storage	2.5" HDD / SSD	1x Removable 2.5" SATA HDD Bay, 1x Internal 2.5" SATA HDD Bay
	M.2	N/A
	mSATA	2x mSATA Sockets (Mux with 2x Mini-PCIe and 2x CFast)
	CFast	2x CFast Sockets (Mux with 2x mSATA)
Expansion	Mini PCIe	2x Full-size Mini-PCIe Sockets (Mux with mSATA), 2x Full-size Mini-PCIe Sockets
	M.2	N/A
	PCI / PCIe	N/A
	SIM Holder	4 x SIM Sockets
Power	Power Mode	Supports Hardware AT, ATX Power Mode
	Power Supply Voltage	9-48V DC Input
	Power Connector Type	1x3-pin Terminal Block Connector
	Power Ignition	Power Ignition Sensing
	Power Adapter	1x Optional AC/DC 24V/5A, 120W Power Adapter: 1x Optional AC/DC 24V 9.25A, 220W Power Adapter
Protection		Over Voltage Protection (OVP) up to 52V Reverse Voltage Protection (RVP) up to -48V Over Current Protection (OCP) 20A
	Mounting	Type
Environment	Operating Temperature	35W CPU: -40°C to 70°C (-40-158° F)
		65W CPU: -40°C to 60°C (-40-140° F) (Optional external fan kit is required)
	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	35W CPU Fanless System, 65W CPU Fan-based System
	Ingress Protection	N/A
	Material	Extruded Aluminum with Heavy Duty Metal
	Dimensions (W x H x D)	241.5 x 73x 230 mm (9.51" x 2.87" x 9.06")
	Net Weight	3.3 kg (7.27 lb)
Operating System	Windows 10 (IoT/Professional), Linux	

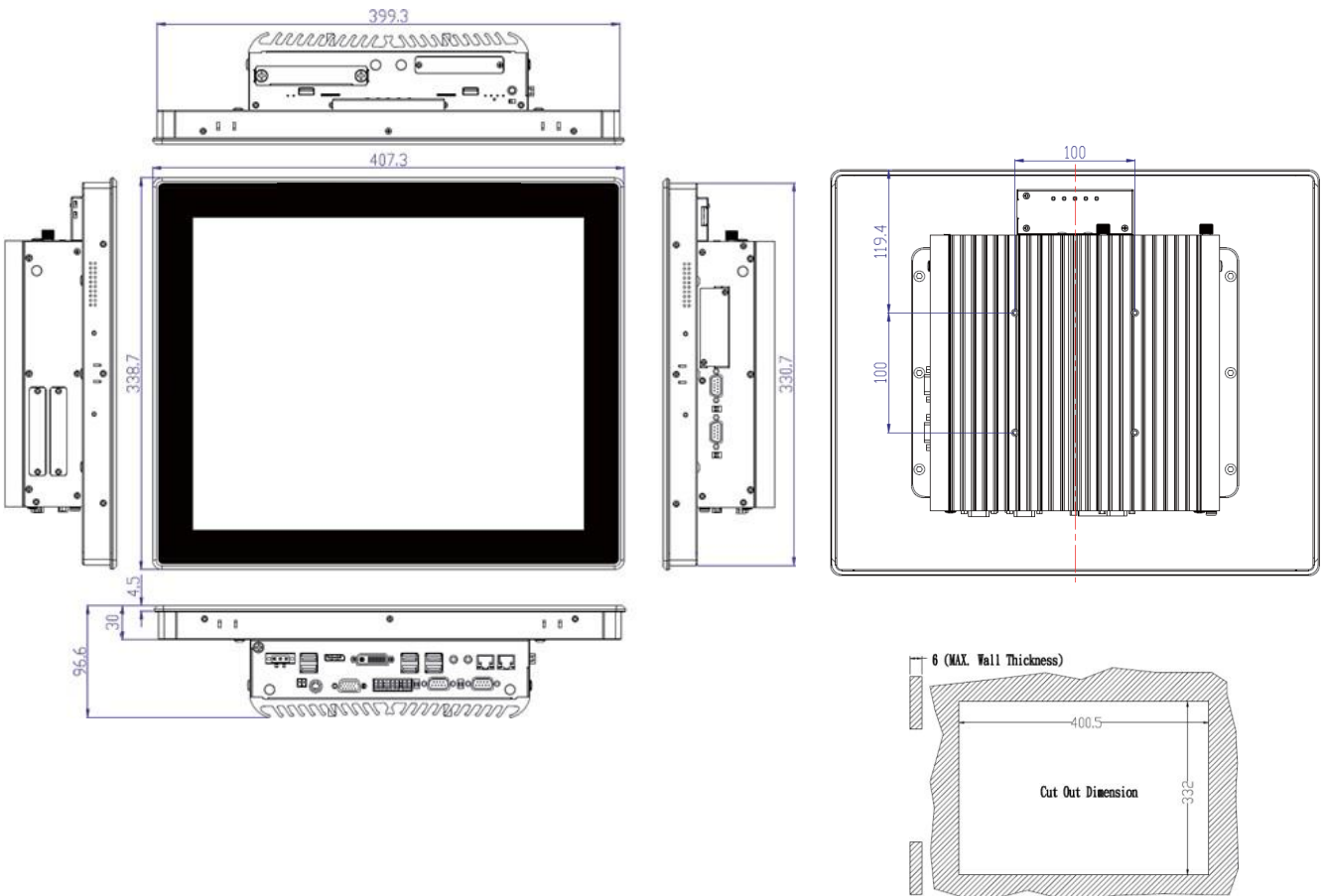
DM-1XP/PM-3100

→ Dimensions

DM-115P/PM-3100



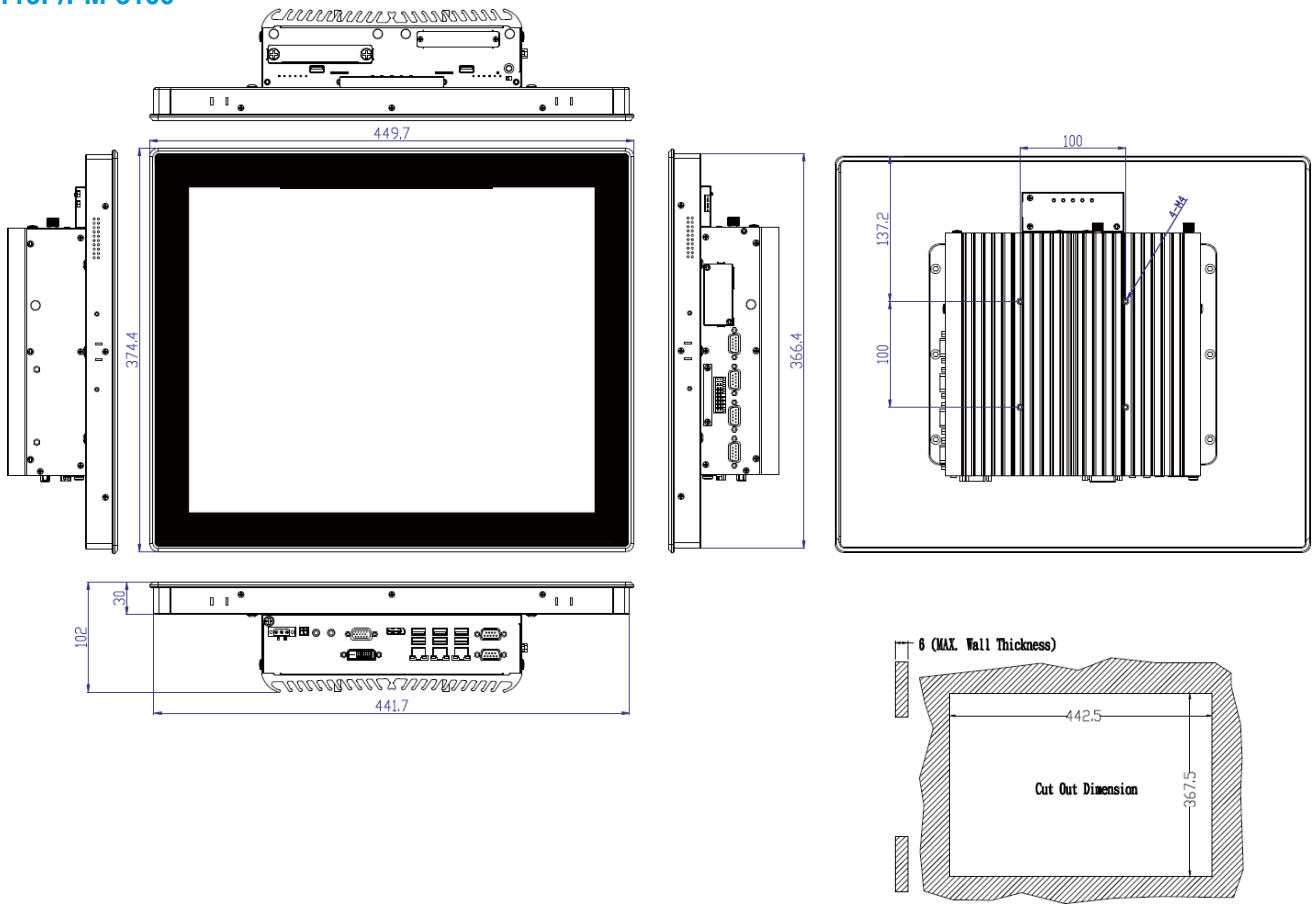
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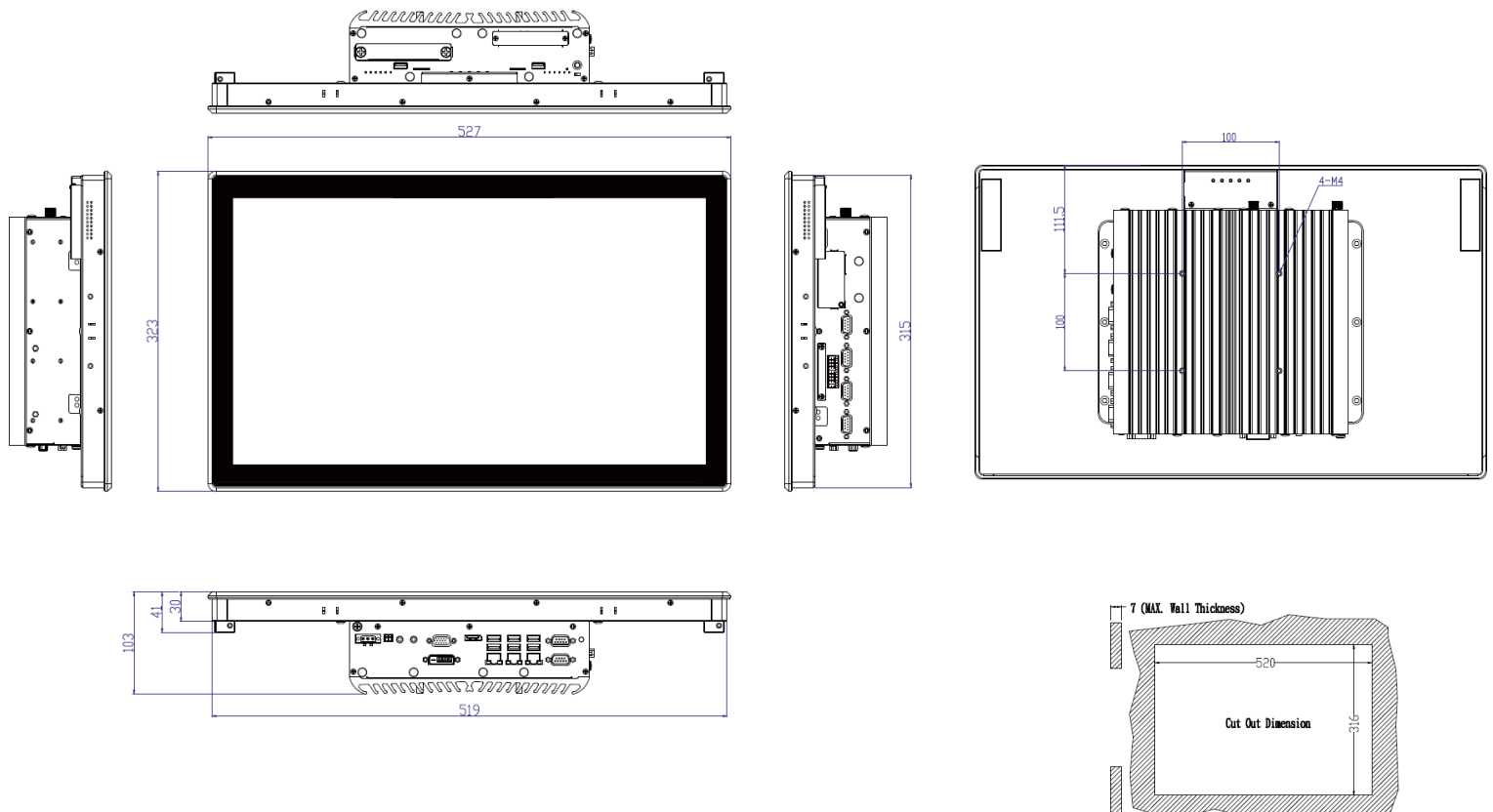
DM-1XP/PM-3100

→ Dimensions

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DM-121PW/PM-3100



DM-1XP/PM-3100

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→ Dimensions

DM-124PW/PM-3100

