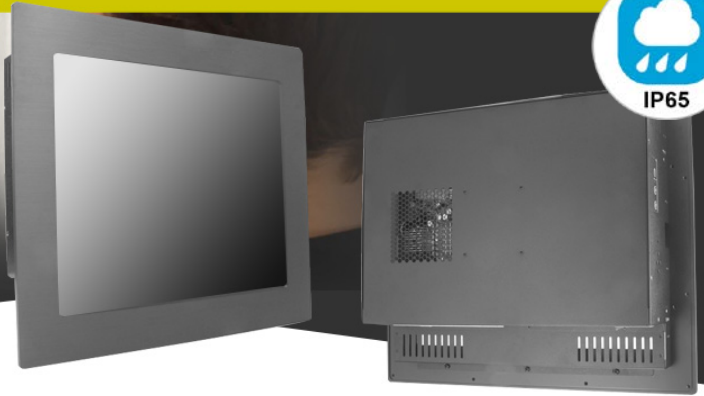


# IP65 FRONT PANEL PC (Metal-5mm)



19" LCD monitor, 1280 x 1024, 250nits, Rear OSD, including rear screw/Clamp/VESA Mount with 5 Wire Resistive Touch Screen + MS-98F5 ( J1900 ) / RAM 4GB ( 0C~70C ) / SSD 256GB ( 0C ~70C )

**MODEL: CPM1900-J-TR**



## FEATURES:

- Modularize mechanical design provides flexible product configuration and easy maintenance
- Optional build-in touch screen for interactive application
- Intel® Celeron® Processor J1900
- Embedded Mini-ITX Motherboard with low power, slim and fanless design
- 2 independent displays: LVDS and VGA
- Supports 6xCOMs and 8xUSB 2.0
- Entry level with best-value for choice

## SPECIFICATIONS:

<b>Panel</b>	Cell Type / Glass Surface	TFT LCD / Black Anti-Glare, low reflection coating
	Aspect Ratio / Size	4 : 3 / 19" viewable diagonal area
	Active Area / Pixel Pitch	376.3(H) x 301.1(V) mm / 0.294(H) x 0.294(V) mm
	Native Resolution / Colors	1280(H) x 1024(V) / 16.7 M
	Brightness / Contrast	250 cd/m <sup>2</sup> (typ) / 800 : 1
	Response Time	< 5 ms
	Viewing Angle (typical)	H. 170° (- 85° ~ + 85°) , V. 160° (- 80° ~ + 80°)
	Light Source	LED backlight, Long life, 35,000 hrs (typ)
<b>Power</b>	Power Input	12V DC input with adapter
	Power Consumption	42.5 Watt, <1 Watt
<b>Operating Condition</b>	Temperature / Humidity	0°C ~ 50°C (32°F ~ 122°F) , 10% ~ 90% (no condensation)
<b>Dimensions</b>	Physical	Please refer to Drawing
	Carton	W x H x D = TBD

Options	Touch	Video / TV	Enhanced Panel	Others
	Resistive touch	SV + AV	Panel with LED backlight	Digital Signage(Stand alone)
	Capacitive touch	SV + AV + AV_Looping	High brightness panel	Networking Digital Signage
	SAW touch	SV + AV + TV	Wide Temperature	Motion Sensor
	Infrared touch		Sunlight Readable	Light Sensor
	Protected glass			Auto-Dimming

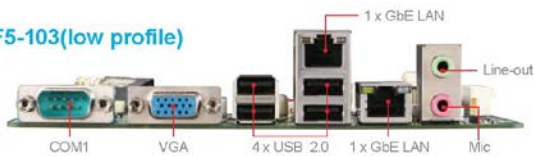
# MS-98F5 MB Specifications



919-98F5-101(low profile)



919-98F5-103(low profile)



<b>Processor</b>	CPU	Intel® Celeron® Processor J1900, QC, 10W
	Frequency	J1900, 2.0 GHz, up to 2.42 GHz
	L2 Cache	2 MB
	CPU Type	BGA
	Chipset	Integrated
	BIOS	AMI
<b>Memory</b>	Technology Max.	Dual-channel DDR3L 1333/1066 MHz
	Socket	2 or 1 x 204-pin SO-DIMMs (depends on SKU)
<b>Display</b>	Controller	Intel® HD Graphics
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM
	LVDS	Dual Channel 24-bit (add chrontel 7511B chipset)
	VGA	1
	Multiple Display	2 independent displays
	Display Interface	VGA up to 2560 x 1600 @60Hz LVDS up to 1920 x 1200 @60Hz
<b>Ethernet</b>	Controller	2 or 1 x Realtek® RTL8111G-CG GbE LAN (depends on SKU)
<b>Audio</b>	Controller	Realtek® ALC887 HD Audio Codec
<b>Super I/O</b>	Controller	Fintek F81866AD-I
<b>H/W Monitor</b>	Watchdog Timer	256-level Watchdog Timer
		Yes
<b>TPM</b>	Controller	Pin header
<b>I/O Interface</b>	USB	8 x USB 2.0 (4 x internal; 4 x rear)
	Serial	6 x COM ports (COM1: rear, COM2-6: internal) COM1: RS-232, 0V/5V/12V COM2-6: RS-232, w/o power
	Parallel	1 (Pin header)
	PS/2	1 (Pin header)
	GPIO	8-bits (4 x GPI, 4 x GPO), 3.3V
<b>Expansion Slot</b>	PCIe x1	1
	M.2	N/A
	Mini-PCIe	1 x Full-size (w/ mSATA)
<b>Storage</b>	SATA	1 x SATA 2.0
	mSATA	1
<b>Power Supply</b>	DC	DC-in 12V
	ATX	N/A
<b>Environment</b>	Operating Temperature	0 ~ 60°C
	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
	Storage Humidity	10 ~ 90%, non-condensing
<b>Form Factor</b>	Dimensions	170 x 170mm (Mini-ITX)
	Weight	0.37 kg
<b>Certification</b>	EMC	FCC, CE, RCM, VCCI, BSMI
<b>Software Platform</b>	OS Support	Windows 7 (32/64-bit) Windows 8 (32/64-bit) Windows 10 (64-bit)

**MECHANICAL DRAWING:**

