

Full IP65 Stainless LCD Monitor

Rugged Completely Sealed IP66/NEMA4X Stainless Steel Chassis/Surface Mount, Water/Dust proof Wide Screen 24" LCD monitor, 1920 x 1200, 900 nits, Rear OSD, VESA Mount, with 5 Wire Resistive Touch Screen and USB Controller

+MS-98F5 (J1900) / RAM 8GB (0C~70C) / SSD 256GB (0C ~70C)
 +I/O (waterproof connectors) : VGA x1, RS232 x1, Audio x1, LAN x2, USB x2 and 12VDC with external 100~240 VAC power adapter (all long are 6 ft)
 +*Win 10 IoT Ent 2019 LTSC Multi Lang ESD OEI Entry

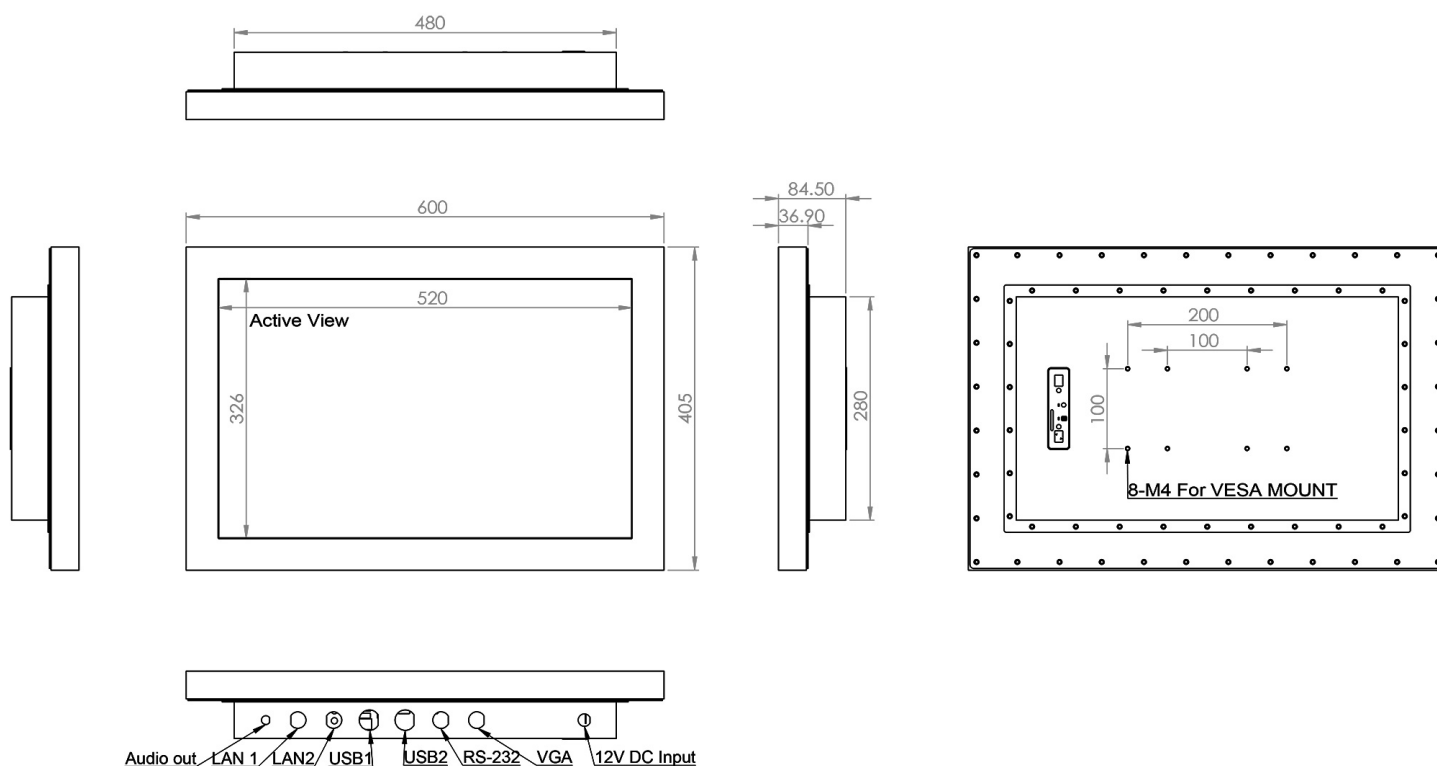


Model: CCHW2400X-J-SIP-TR

SPECIFICATIONS:

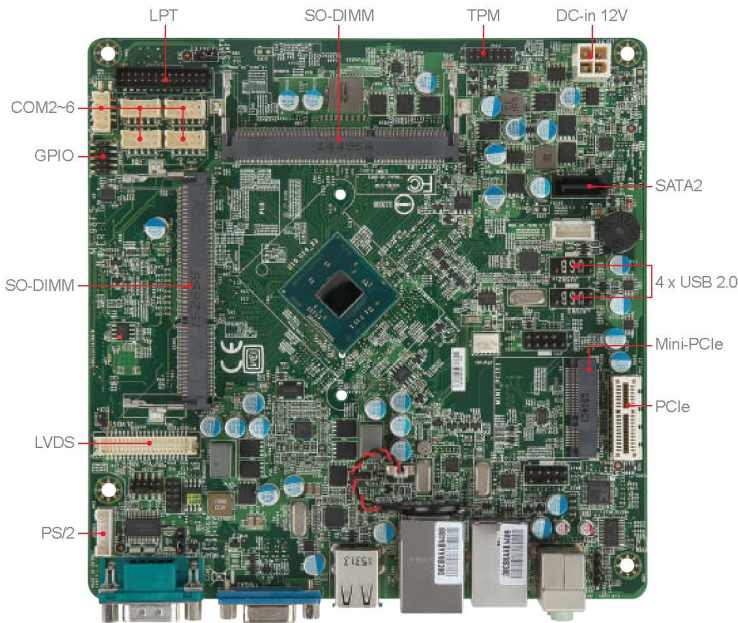
ITEMS	UNIT	SPECIFICATIONS
Screen Diagonal	[mm]	611.32(24.07")
Active Area	[mm]	518.4 (H)x 324.0 (V)
Pixels H x V		1920(x3)x1200
Pixel Pitch	[mm]	0.270 (per one triad) x 0.270
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		AHVA mode, Normally Black
White Luminance	[cd/m ²]	900 (center, Typ) @ 60mA
Contrast Ratio		1000 : 1 (Typ)
Optical Response Time	[msec]	14 (Typ., on/off)
Support Color		1.07B colors
Temperature Range Operating Storage (Non-Operating)	[°C] [°C]	0 to +40 -20 to +50
RoHS Compliance		RoHS Compliance

MECHANICAL DRAWING:



PC SPECIFICATIONS: MS-98F5

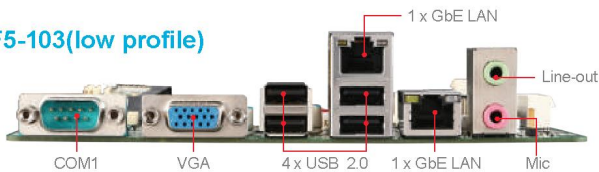
- Intel® Celeron® Processor J1900/N2930 Quad Core 1.86/2GHz processor (formerly BayTrail)
- Embedded Mini-ITX Motherboard with low power, slim and fanless design
- 2 independent displays: LVDS and VGA
- Supports 6xCOMs and 8xUSB 2.0
- Entry level with best-value for choice



919-98F5-101(low profile)



919-98F5-103(low profile)



Processor	CPU	Intel® Celeron® Processor J1900, QC, 10W Intel® Celeron® Processor N2930, QC, 7.5W	
	Frequency	J1900, 2.0 GHz, up to 2.42 GHz N2930, 1.83 GHz, up to 2.16 GHz	
	L2 Cache	2 MB	
	CPU Type	BGA	
	Chipset	Integrated	
	BIOS	AMI	
Memory	Technology Max.	Dual-channel DDR3L 1333/1066 MHz	
		Up to 8GB	
	Socket	2 or 1 x 204-pin SO-DIMMS (depends on SKU)	
Display	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	
Ethernet	Controller	2 or 1 x Realtek® RTL8111G-CG GbE LAN (depends on SKU)	
Audio	Controller	Realtek® ALC887 HD Audio Codec	
Super I/O	Controller	Fintek F81866AD-I	
H/W Monitor	Watchdog Timer	256-level Watchdog Timer	
		Yes	
TPM	Controller	Pin header	
I/O Interface	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	
	Expansion	PCIe x1	1
		M.2	N/A
	Mini-PCle	1 x Full-size (w/ mSATA)	
Storage	SATA	1 x SATA 2.0	
	mSATA	1	
Power Supply	DC	DC-in 12V	
	ATX	N/A	
Environment	Operating Temperature	0 ~ 60°C	
	Operating Humidity	10 ~ 90%, non-condensing	
	Storage Temperature	-20 ~ 80°C	
	Storage Humidity	10 ~ 90%, non-condensing	
Form Factor	Dimension	170 x 170mm (Mini-ITX)	
	Weight EMC	0.37 kg	
Certification	EMC	FCC, CE, RCM, VCCI, BSMI	
Software Platform	OS Support	Windows 7 (32/64-bit) Windows 8 (32/64-bit) Windows 10 (64-bit)	