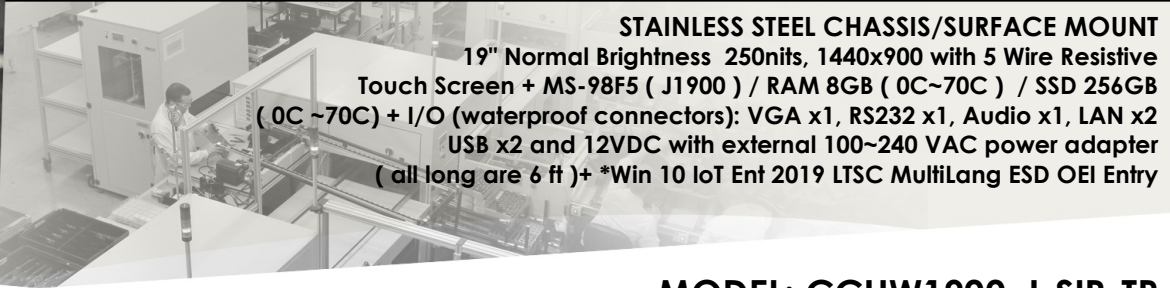


# RUGGED COMPLETELY SEALED FULL IP66/NEMA4X



**STAINLESS STEEL CHASSIS/SURFACE MOUNT**  
19" Normal Brightness 250nits, 1440x900 with 5 Wire Resistive Touch Screen + 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 MultiLang ESD OEI Entry

**MODEL: CCHW1900-J-SIP-TR**

## FEATURES:

- 19" Normal Brightness 250nits
- Resolution 1440x900
- 5 Wire Resistive Touch Screen
- 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
- 12VDC with external 100~240 VAC Power Adapter (all are 6ft long)
- \*Win 10 IoT Ent 2019 LTSC MultiLang ESD OEI Entry

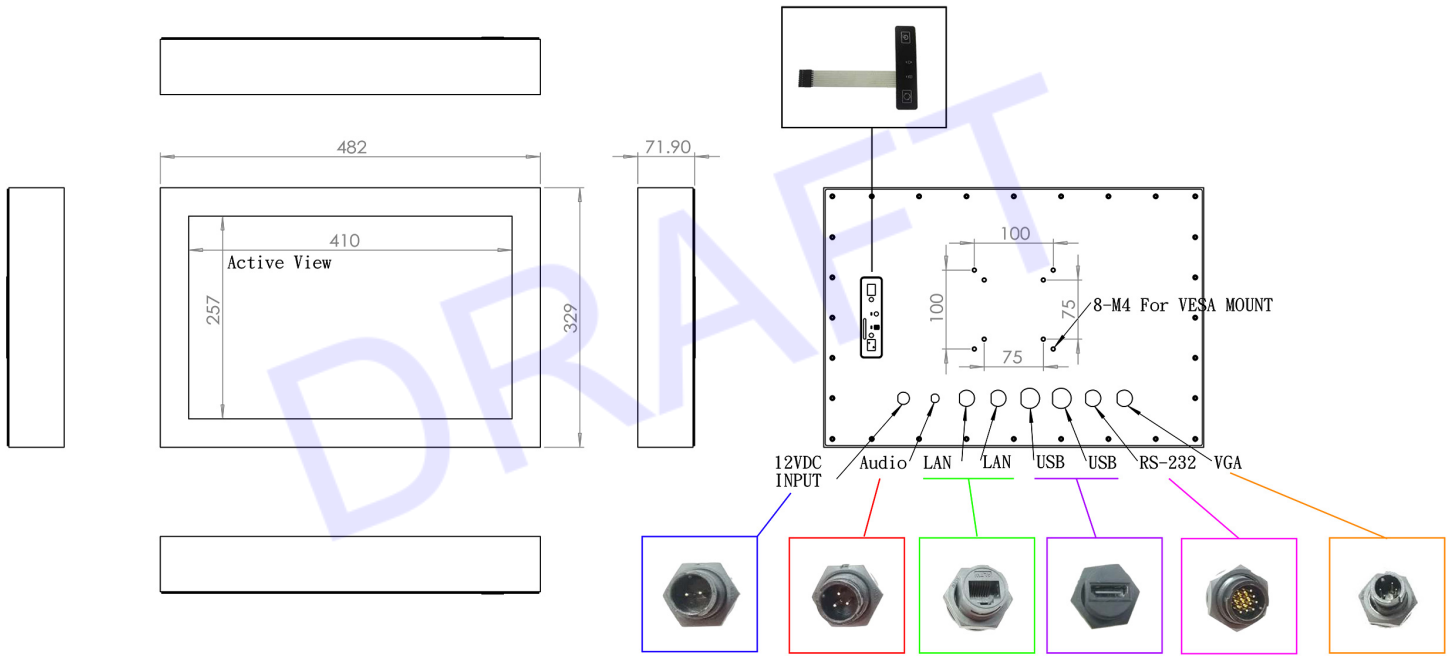
## SPECIFICATIONS:

<b>Display</b>	Viewing Size Image	19"
	Active Display Area (mm)	410 (H) x 257 (V)
	Pixel Pitch (mm)	0.284(H) x 0.284(V) mm
	Resolution	1440(H) x 900(V)
	Contrast Ratio	1000 : 1 (typ.)
	Color	16.7m
	Brightness	250nits
	Viewing Angle	-85~85 (H) ; -80~80(V)
<b>Power</b>	Source	AC100V~AC240V
	Management	VESA DPMS Compliant
<b>Optional</b>	Touch	Resistive, PCAP,IR
	High Brightness	1000,1500
	Auto Dimming	YES
	POWER in	DC24V
	Remote Control	YES
	IO	AV, DP

*\*Specifications subject to change without notice, not responsible for typographical errors.*

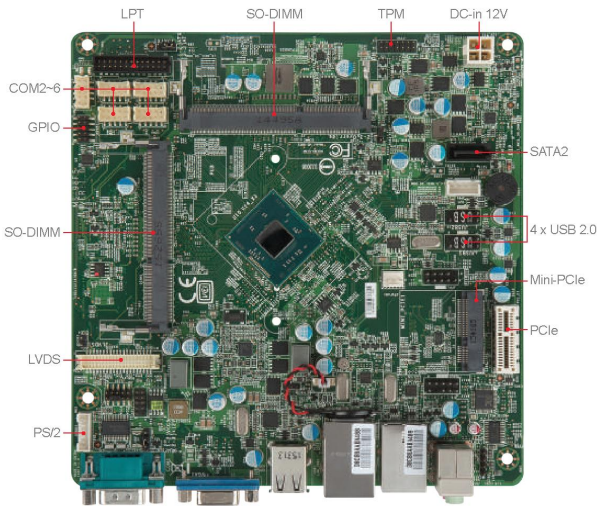
# MECHANICAL DRAWING:

This is subject to change without Notice. Final Drawings Will be Provided for Approval after Order.



Drawing No.: CCHW1900-J-SIP-TR-08082023-V1

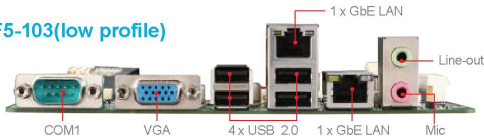
## MS-98F5 MB Specifications



919-98F5-101(low profile)



919-98F5-103(low profile)



## FEATURES

- 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

<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	Dual-channel DDR3L 1333/1066 MHz
	Max. Capacity	Up to 8GB
	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
	Smart Fan	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)