

RUGGED COMPLETELY SEALED FULL IP66/NEMA4X STAINLESS STEEL CHASSIS/SURFACE MOUNT

21.5" Normal Brightness 250 nits, 1920x1080 with 5 Wire Resistive Touch Screen and USB Controller + MS-98E1 (H110 SKU) / i5-6500 / RAM 4GB (0C~70C) / SSD 256GB (0C ~70C) *Win 10 IoT Ent 2019 LTSC MultiLang ESD OEI Entry + Power x1, VGA x 1 output, RS232 x 1 + Audio x 1, LAN x 1, USB x 2 Default 7 set waterproof connectors Waterproof connectors & cables with external 100~240V AC + adapter



Model: CCHW2150-SIP-i5-TR

FEATURES:

- High Contrast color LCD Monitor with resolution up to Full HD (1920 x 1080)
- Completely Sealed FULL IP66/NEMA4X
- High Shock & Vibration Resistance
- Widely Application: Automation, Medical, Tourist, Transportation

SPECIFICATIONS:

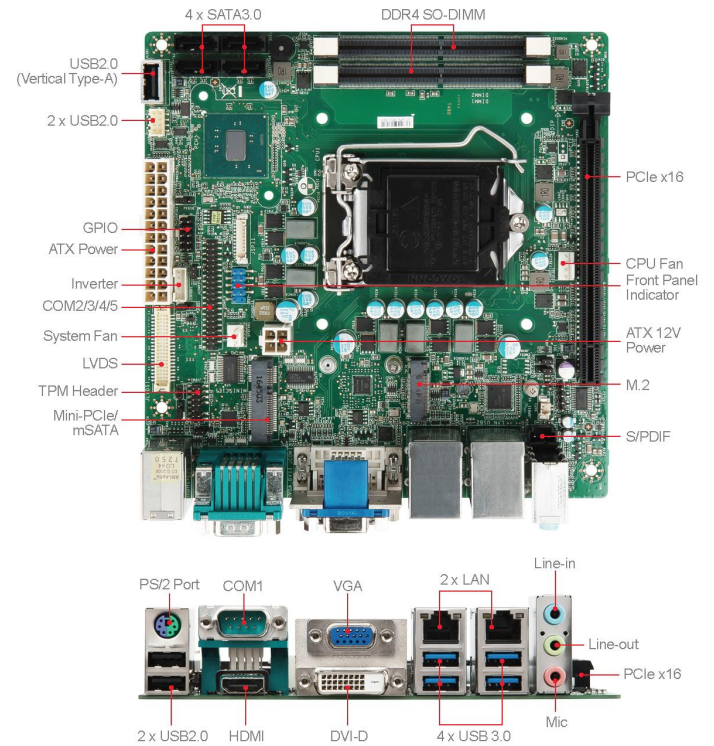
| | | |
|-----------------|--------------------------|--|
| Display | Viewing Size Image | 21.5" |
| | Active Display Area (mm) | 479 (H) x 270.50 (V) |
| | Pixel Pitch (mm) | 0.248 x 0.248 |
| | Resolution | 1920 x 1080 |
| | Contrast Ratio | 5000 : 1 (typ.) |
| | Color | 16.7M (8bits/colors) |
| | Brightness | 250 cd/m ² |
| | Viewing Angle | -89~89 (H) ; -89~89 (V) |
| | Recommended Resolution | 1920 x 1080 @ 60Hz |
| | Signal Connector | VGA,DVI |
| Power | Source | 12V DC in, with External AC-DC Adapter(100-240V) |
| | Consumption | 38W typical, normal operation |
| | Management | VESA DPMS Compliant |
| Optional | Touch | Resistive, PCAP |
| | High Brightness | YES |
| | Auto Dimming | YES |
| | POWER in | DC24V ,DC9V~36V |
| | Remote Control | YES |
| | IO | AV,HDMI,DP |

APPLICATIONS:



MS-98E1 FEATURES

| | | | |
|--------------------------|-----------------------------|--|---|
| Processor | CPU | C236 SKU 7th/6th Gen Intel® Desktop Kaby Lake/Skylake Xeon/i7/i5/i3/Pentium®/Celeron Series Processor, Max 80W | H110 SKU 7th/6th Gen Intel® Desktop Kaby Lake/Skylake Core™ i7/i5/i3/Pentium®/Celeron® Series Processor, Max 65W |
| | Frequency | 2.3GHz~4.0GHz (Depends on CPU) | |
| | L2 Cache | 2M ~ 8M (Depends on CPU) | |
| | CPU Type | Socket (LGA 1151) | |
| | Chipset | Intel® C236 Express | Intel® H110 Express |
| | BIOS | AMI | |
| Memory | Technology | Dual-channel DDR4 (ECC) 2133MHz/2400MHz (7th Gen) | Dual-channel DDR4 (non-ECC) 2133MHz/2400MHz (7th Gen) |
| | Max. Capacity | Up to 32 GB | |
| | Socket | 2 x 260-pin SO-DIMMs | |
| Display | Controller | Intel® HD Graphics | |
| | Graphic Memory | Shared system memory up to 1.7 GB SDRAM | |
| | LVDS | 1 | |
| | eDP | N/A | |
| | VGA | 1 | |
| | DVI | 1 (DVI-D) | |
| | HDMI | 1 | |
| | Display Port | N/A | |
| | Multiple Display | 3 independent displays | 2 independent displays |
| | Display Interface | LVDS up to 1920 x 1200 HDMI up to 3840 x 2160 DVI-D up to 1920 x 1200 VGA up to 1920 x 1200 | |
| Ethernet | Controller | 1 x Intel® I219-LM GbE-PHY 1 x Intel® I211-AT PCIe GbE LAN (Co-layer I210-AT) | |
| Audio | | Realtek® ALC887 HD Audio Codec | |
| Super I/O | Controller | Fintek F81866AD-I | |
| H/W Monitor | Watchdog Timer Smart Fan | 256-level Watchdog Timer Yes | |
| TPM | Controller | Pin header | |
| I/O Interface | USB | 4 x USB 3.0 (4 x rear) 4 x USB 2.0 (2 x rear; 2 x internal) 1 x USB 2.0 (Vertical, internal) | |
| | Serial | 5 x COM (1 x rear; 4 x internal) COM1: RS-232/422/485, 0V/5V/12V COM2/3/4/5: RS-232, 0V/5V/12V | |
| | Parallel | N/A | |
| | PS/2 | 1 | |
| | GPIO | 8-bits (4 x GPI, 4 x GPO), 5V | |
| | Expansion Slot | PCIe x 16 | 1 |
| | M.2 | 1 x M key (PCIe x4, SATA3.0, 2242) | N/A |
| | M.2 Mini-PCIe | 1 x Full-size, mSATA | |
| Storage | SATA | 4 x SATA 3.0 | 3 x SATA 3.0 |
| | mSATA | 1 (shared w/ Mini-PCIe) | |
| Power Supply | DC | N/A | |
| | ATX | ATX-Power 24P, 12V-4P | |
| 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 | 170mm x 170mm (Mini-ITX) | |
| | Weight | 0.37 kg | |
| Certification | EMC | FCC, CE, RCM, VCCI, BSMI | |
| Software Platform | OS Support | Windows 7 (32/64-bit) Windows 8.1 (64-bit) Windows 10 (64-bit) Linux Kernel 4.X, support Fedora 23(64Bit) & Ubuntu 16.04 (64Bit) of Kaby Lake-S & Skylake-S | |



- 3 independent displays with multiple video outputs (LVDS, HDMI, DVI-D, VGA)
 - Supports DirectX 11.1 and Intel® Clear Video Technology (up to 1080P)
 - 4 SATA 3.0 ports for RAID
 - Supports m-SATA function by Mini-PCIe slot
 - Plenty USB ports for more peripherals(USB3.0*4, USB2.0*4, Vertical Type USB2.0*1)
-
- 2 independent displays with multiple video outputs (LVDS, HDMI, DVI-D, VGA)
 - Supports DirectX 11.1 and Intel® Clear Video Technology (up to 1080P)
 - 3 SATA 3.0 ports for faster and high-capacity storage
 - Supports m-SATA function by Mini-PCIe slot
 - Plenty USB ports for more peripherals(USB3.0*4, USB2.0*4, Vertical Type USB2.0*1)

MECHANICAL DRAWING:

