

MFS-11D Series

Industrial Fanless Systems



MFS-11D Series

PRODUCT HIGHLIGHTS

- ▶ Intel® 11th Gen Tiger Lake-UP3 Core i7/i5/i3/Celeron ULV processors
- ▶ Outstanding graphics with Integrated Intel® Iris Xe graphics
- ▶ Intel® vPro technology support
- ▶ 1 x DDR4 SO-DIMM and support up to 32GB
- ▶ Support Quadruple display for HDMI, and DisplayPort
- ▶ 2 x Hot Swappable SSD/HDD slot
- ▶ 2 x Intel® Gigabit Ethernet
- ▶ Expansion modules to add COM/LAN/M12 LAN/PoE/M12 PoE/CANBus
- ▶ 12V~36V wide voltage power input or AC options



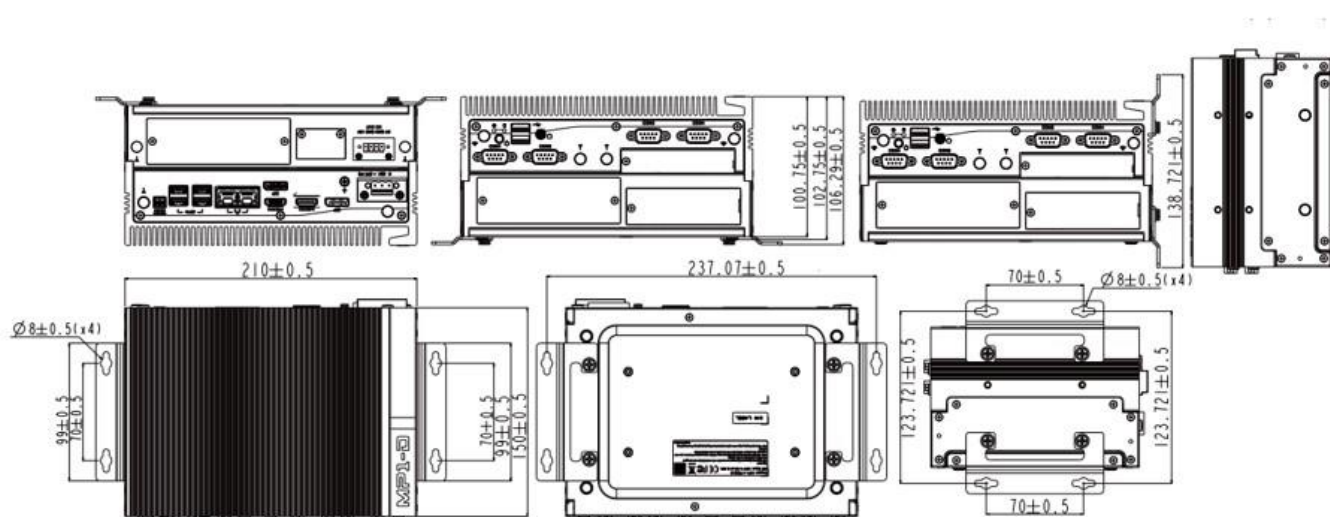
TECHNICAL INFORMATION

PROCESSOR	Integrated Processor options: - Core™ i7-1185G7E 4 Core, 8 threads, PBF 1.80GHz, Turbo Mode 4.40GHz, 12W - Core™ i5-1145G7E 4 Core, 8 threads, PBF 1.50GHz, Turbo Mode 4.10GHz, 15W - Core™ i3-1115G4E 2 Core, 4 threads, PBF 2.20GHz, Turbo Mode 3.90GHz, 15W - Core™ Celeron 6305E 2 Core, 2 threads, PBF 1.80GHz, 15W
CHIPSET	Intel® SoC Integrated
SYSTEM MEMORY	DDR4 3200 MHz / 1 x 260-pin SO-DIMM / Max. 32GB (Non-ECC)
DISPLAY	DisplayPort 1.2 / HDMI 1.4
ETHERNET	Intel® I219-LM Giga LAN / Intel® I225-LM 2.5GbE LAN / Additional 2 x Intel® I210-IT Giga LAN option
AUDIO	Realtek® ALC256
I/O CHIPSET	Nuvoton NCT6126D(eSPI)
TPM	Nuvoton NPCT750AABYX TPM2.0
EXPANSION SLOT	2 x Expansion slot (PoE/LAN/COM/DIO/IGN/CANBus Options) 1 x Mini PCIe Full size (USB2.0 / SATAIII / PCIeX1) Wireless: 1 x M.2 2230 E key (PCIeX1, USB2.0) Storage/LTE/5G Slot: 1 x M.2 2280/2260/2242/3042/3052 B Key (USB2.0/*PCIeX1/SATAIII) *Not support M.2 M Key NVMe SSD **5G card support is by BOM option. Please check with sales about the M.2 B Key 3052 5G card spec if you have any request
INDICATORS	Power LED / HDD LED
STORAGE DEVICE	2 x Hot Swappable 2.5 HDD / SSD (Maximum 9.5mm height) 1 x M.2 B Key 2280/2260/2242 Slot 1 x mSATA
FRONT I/O	2 x SMA Antenna (Optional for Wi-Fi/LTE function) / 3 x RS232 / 2 x Hot Swappable 2.5" SSD/HDD slot (Maximum 9.5mm height) 1 x Audio Combo Jack (Mic-in and Line-out) / 2 x USB 2.0 1 x RS232 / 422 / 485 HDD LED Power Button w/ Power Indicator
REAR I/O	1 x 4-pin Terminal Block Power Output (12V/5V) 2 x DisplayPort 1.2 2 x HDMI 1.4 2 x RJ-45 4 x USB 3.1 Gen 2 (10 Gbps) 1 x 3-pin Terminal Block Power Input 1 x 2-pin Terminal Block Remote Power on / off 4 x SMA Antenna (Optional for Wi-Fi/LTE function)
H/W MONITOR	Temperature Monitor / Voltage Monitor
WATCHDOG TIMER	1~255 steps by software program
POWER INPUT	12~36V Wide Range DC-in Input w/ 3-pin Terminal Block Connectivity / *Optional Expansion Module for Power Ignition
POWER ADAPTER	DC24V / 5A / AC / DC / 120W adapter (For AC SKU)

▶ TECHNICAL INFORMATION (CONTINUED)

DIMENSIONS	8.3" x 5.9" x 4" (210 x 150 x 103 mm)
MOUNTING	Wallmount/Side Mount/VESA & Din Rail Mount Combo Kit (Optional)
ENVIRONMENT	Operating Temperature: 15W TDP: -40 ~ 70°C with 0.7m/s Air Flow (w/ Extended Temp. SSD/mSATA/RAM) / 28W TDP: -40 ~ 60°C with 0.7m/s Air Flow (w/ Extended Temp. SSD/mSATA/RAM) Storage Temperature: -40 ~ 85°C (-40 ~ 185°F) Operating Humidity: 10% ~ 95% R/H (Non-condensing)
SHOCK & VIBRATION	Vibration: Operating: 5Hz~500Hz / 3Grms / 3Axis (w/ SSD, according to IEC60068-2-64) Shock: Operating: 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
CERTIFICATIONS	CE / FCC Class A
OS SUPPORT	Windows® 10 64-bit / Linux (support by request)
PART NUMBERS	AC models: MFS-11D-C6305: Celeron 6305E AC powered fanless system MFS-11D-CI3: Core i3-1115G4E AC powered fanless system MFS-11D-CI5: Core i5-1145G7E AC powered fanless system MFS-11D-CI7: Core i7-1185G7E AC powered fanless system DC models: MFS-11D-C6305DC: Celeron 6305E DC powered fanless system MFS-11D-CI3DC: Core i3-1115G4E DC powered fanless system MFS-11D-CI5DC: Core i5-1145G7E DC powered fanless system MFS-11D-CI7DC: Core i7-1185G7E DC powered fanless system Expansion modules: MFS-11D-COM: Module with 4 x RS232 / 422 / 485, 8-bit Isolated DIDO (4 x DI, 4 x DO) MFS-11D-LAN: Module with 4 x Intel i210-IT Giga LAN, RJ45 Port MFS-11D-M12LAN: Module with 4 x Intel i210-IT Giga LAN, M12 Port MFS-11D-POE: Module with 4 x PoE+, Intel i210-IT Giga LAN, RJ45 Port MFS-11D-M12POE: Module with 4 x PoE+, Intel i210-IT Giga LAN, M12 Port MFS-11D-CANB: Module with 2 x CANBus 2.0B and 6-bit Isolated DIDO MFS-11D-IGN: Vehicle Power Ignition Card, 12V/24V and Power ON/OFF Timing Selectable

▶ **What is the purpose of the study?**



▶ Company Address

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