

MRG561 Military-grade fanless rugged PC

Connectors added and Performance Military-Grade Design for Harsh Environments
Ensuring Reliable Communication and System Security in Mission-Critical Operations



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Product Overview

The MRG561 is a compact, fanless rugged PC with military-grade interfaces and design. It delivers stable, reliable, and high-performance computing with flexible expansion.

High level processor with low consumption in robust protection, it supports long-term operation in harsh environments, ideal for defense, unmanned systems, and industrial edge applications.

Key Features

High Performance & Low Consumption

- Intel® Core™ 5-130UL 10-core processor
- Ultra-low power consumption 15W
- Suitable for long-duration computing tasks

Flexible I/O & Expansion

- Supports USB 3.2/COM/2.5GbE LAN/DIO/CAN
- M.2 expansion slot
- Equipped with D38999 military connectors

Military-Grade Reliability

- Compliant with MIL-STD-810G (shock, vibration, temperature)
- Compliant with MIL-STD-461G (EMI / EMC)
- IP65-rated dustproof and water-resistant

Fanless Passive Cooling

- Fully sealed aluminum enclosure
- Passive thermal design (fanless)
- Zero noise & zero dust accumulation
- Enhanced long-term reliability

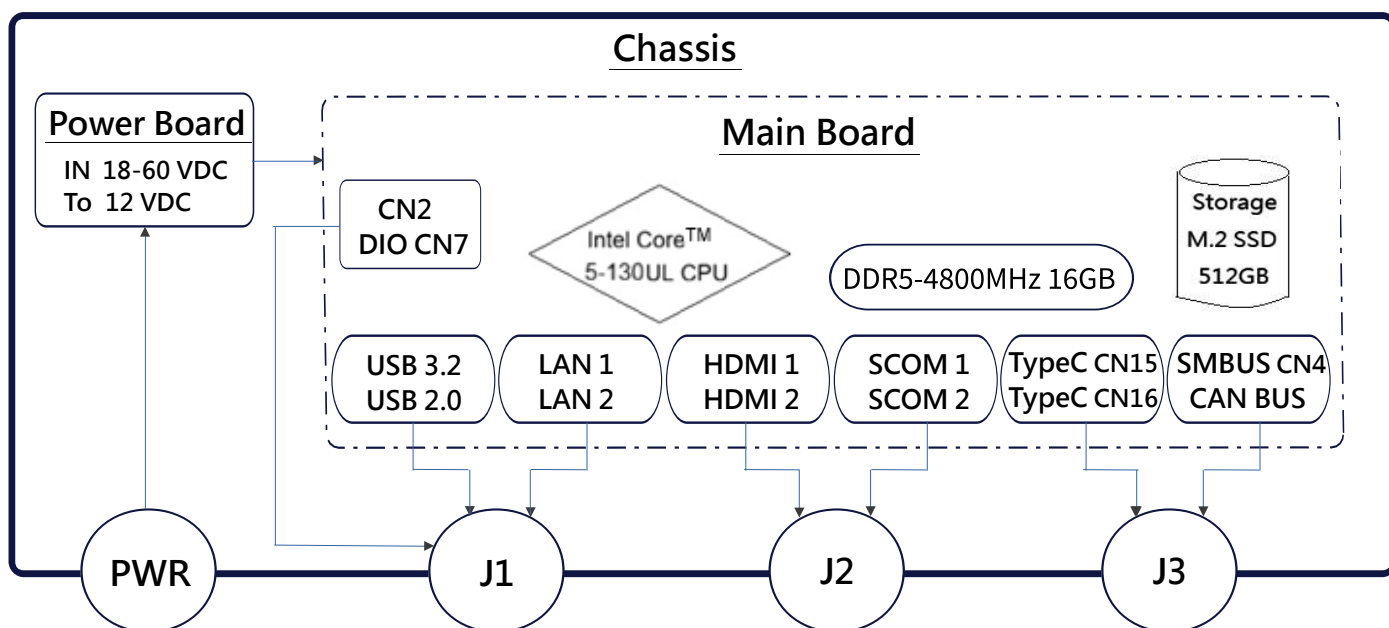
Lightweight & Versatile Design

- Dimensions : 180 x 177.33 x 93.5 mm (L x W x H)
- Weight : < 3.4 kg
- Optimized for space-constrained platforms

Wide-temperature Design

- Operating range : -20°C to +70°C
- Suitable for harsh environmental conditions

Block Diagram

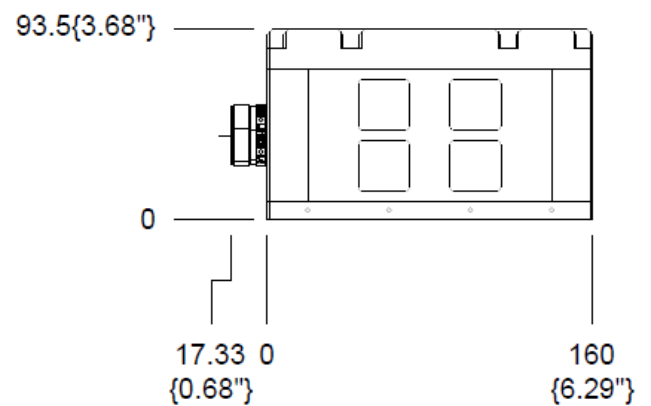
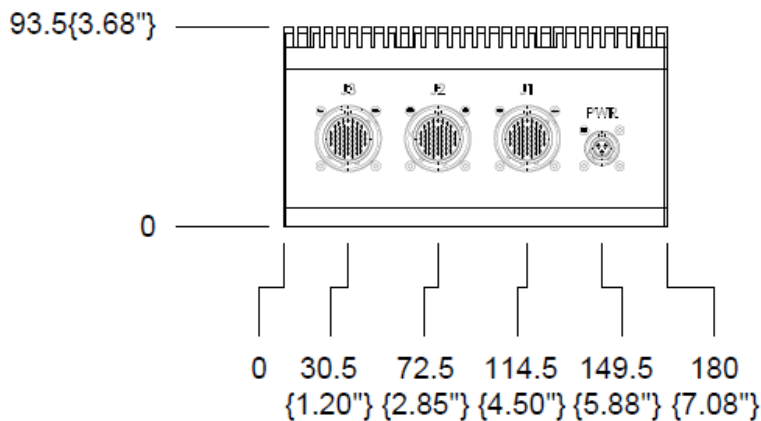
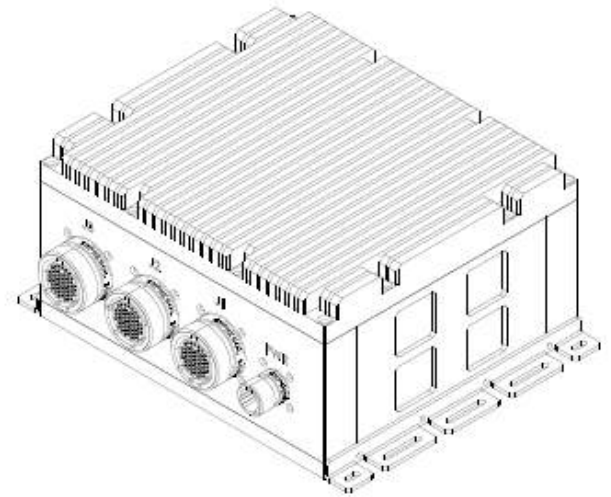
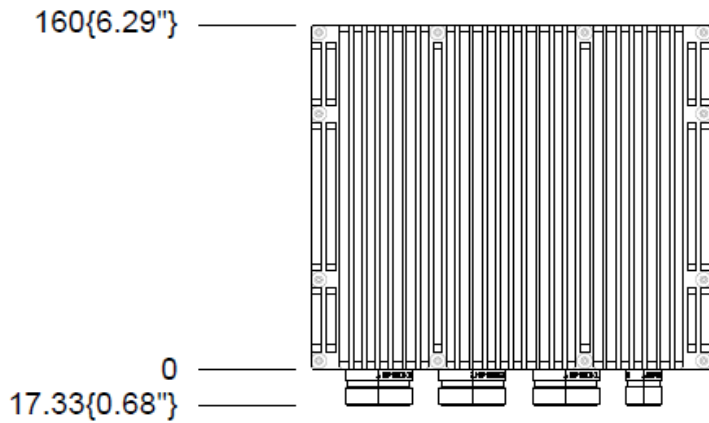


MIL-DTL-38999 Series Connector

Specifications

Processor	Intel® Core™ 5-130UL 10-core processor
Memory	DDR5-4800 MHz 16 GB, up to 64 GB
Storage	M.2 SSD 512 GB
I/O Interfaces	USB 3.2 / COM / 2.5GbE LAN / DIO / CAN / 4-display output (D38999 military connectors)
Power Input	18-60 VDC
Operating Temperature	-20°C to +70°C
Chassis Material	AL6061 aluminum with chromate surface treatment, sandblasted black paint coating
Compliance	MIL-STD-810G / MIL-STD-461G / IP65
Dimensions / Weight	180 × 177.33 × 93.5 mm (L x W x H) / < 3.4 kg

Dimension Drawing



- All dimensions are in millimeters. (mm)
- Dimensions are subject to change without prior notice.

Application

- **Defense & Military**
Tactical vehicles
Mobile command centers
- **Unmanned Systems**
UGV (Unmanned Ground Vehicle)
USV (Unmanned Surface Vehicle)
UAV (Unmanned Aerial Vehicle)
- **Communication & Surveillance**
Satellite communication stations
Battlefield monitoring
- **Industrial & Automation**
Smart factories
Edge computing systems

Cable connected view



Angle view



Side view



Front view



Top view



MRG561 Selection

Model	Memory	Storage	Power Input	Color	Mounting bracket
MRG561	D8	S256	DC	GR	M
	D16	S512		BL	X
	D32				
	D64				

Example :

MRG561-D16-S512-DC-GR-M

Product Code Definition :

- D8 : 8 GB Memory
- D16 : 16 GB Memory
- D32 : 32 GB Memory
- D64 : 64 GB Memory
- S256 : 256 GB Storage
- S512 : 512 GB Storage
- DC : 18-60 VDC
- GR : Green
- BL : Black
- M : Mounting bracket (customize)
- X : Without mounting bracket

External Cable Selection

Model	Type	Length	Connector Type
MRG561	PWR	1M	B
	J1	5M	O
	J2	10M	T
	J3		

Example :

MRG561-J1-10M-O

Product Code Definition :

- PWR: Power cable
- J1 : I/O test cable (USB3.2/USB2.0/LAN1/LAN2/DIO) _26WE35PN
- J2 : I/O test cable (HDMI1/HDMI2/SCOM1/SCOM2) _26WE35PA
- J3 : I/O test cable (TypeC/SMBUS/CAN BUS) _26WE35PB
- 1M : 1 m
- 5M : 5 m
- 10M : 10 m
- B : Standard connector
- O : Open-end (no connector)
- T : Terminal block (European type)