

# MILCORTEX

## OPERATOR INTERFACE COMPUTER



## OVERVIEW

By combining the power of a fanless MilCortex3000 ruggedized computer with an IP65 seal on an aluminum chassis, Rugged Science provides a powerful HMI solution for all your needs.

A configurable bottom plate allows you to configure the I/O's to your applications, and Intel HD graphics ensure they'll all look crystal-clear. With multiple expansion bays and storage options, the **MilCortex Operator Interface Computer** is the high-performance solution you've been looking for.

## FEATURES

- **Integrated MilCortex3000 Standalone Computer**
- **External I/O Configurable Bottom Plate**
- **Fanless, Solid State Design**
- **IP65 Seal on Locking-Hasp Door**
- **Operating Temperature -20°C to 60°C**
- **Military Qualified:**
  - **Shock: MIL-STD-901D, Grade A**
  - **Vibration: MIL-STD-167-1A**
  - **EMI: MIL-STD-461G**
  - **Power: MIL-STD-1399**

# MILCORTEX OIC SPECIFICATIONS

## System

<b>Processor</b>	Quad Core Intel® Xeon®/Core™ i7/i5/i3 Processor (Skylake-S/Kaby Lake-S)
<b>Chipset</b>	Intel® C236
<b>BIOS</b>	AMI
<b>SIO</b>	IT8786E
<b>Memory</b>	2x DDR4 2133MHz SO-DIMM, up to 32GB

## Configurable External I/O Bottom Plate

<b>Circular MIL Connectors</b>	2x GbE RJ45 1x USB 1x Power Input
<b>Locking Circular Connector</b>	1x HDMI
<b>Power Toggle Switch</b>	
<b>CPU On/Off Button</b>	
<b>Fiber Cable Glands with Internal ST Fiber Landing Patch Panel (2x)</b>	2x Transmit/Receive 100FX 2x Transmit/Receive 1000LX

## Expansion

<b>Mini PCIe</b>	3x Mini PCIe socket: 2x Full-Size PCIe for PCIe/USB/External SIM/mSATA 1x Half-Size for PCIe/Internal SIM
<b>SUMIT A, B</b>	2x SUMIT Slot (optional)

## Graphics

<b>Processor</b>	Intel® HD Graphics 630/530
<b>Interfaces</b>	DVI-D: Up to 1920 x 1200 @ 60Hz DVI-I: Up to 1920 x 1200 @ 60Hz DisplayPort: Up to 4096 x 2304 @ 60Hz

## Power

<b>Input</b>	115-230VAC, 60Hz, 1 Phase
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## Storage

<b>SATA</b>	2x SATA III (6Gbps)
<b>mSATA</b>	2x SATA III (Mini PCIe Type, 6Gbps)
<b>SATA DOM</b>	1x SATA II (3Gbps)
<b>M2 DOM</b>	1x PCIe 3.0 (8GT/s)/SATA III (6Gbps)
<b>Storage Device</b>	1x CFast Socket, Push-in/Push-out Ejector/2x Front-access 2.5" SSD/HDD Tray

## Audio

<b>Codec</b>	Realtek® ALC892, 5.1 Channel HD Audio
<b>Interface</b>	1x Line-Out, 1x Mic-In

## Ethernet

<b>LAN 1</b>	Intel® I219LM Gigabit LAN supports iAMT 11.0
<b>LAN 2</b>	Intel® I210 Gigabit LAN
<b>PoE (LAN 3-6)</b>	Gigabit IEEE 802.3at (25.5W/48V) PoE+ by Intel®

## Mechanical & Environmental

<b>Weight</b>	32lbs (including mounting bracket)
<b>Dimensions</b>	14"(W) x 15"(H) x 8"(D)
<b>Operating Temp</b>	-20°C - 60°C
<b>Storage Temp</b>	-20°C - 85°C
<b>Humidity</b>	0-95%
<b>Shock</b>	MIL-STD-901D, Grade A
<b>Vibration</b>	MIL-STD-167-1A
<b>EMI</b>	MIL-STD-461G
<b>Power</b>	MIL-STD-1399

## Dimensions & Drawing

Unit : mm (inch)

