

HIGH PERFORMANCE RUGGED MISSION COMPUTER

expando



Powered by the latest generation of Intel® processors and MIL-GRADE qualified. The computer is manufactured in Europe and is a highly integrated processing system ready for deployments in extreme environments.

Powered by Intel® Atom™, Intel® Core™ i7-8665UE, or Intel® Core™ i7-1185GRE processors and qualified according to military-grade environmental standards (DO-160, MIL-STD-810 & MIL-STD-461), it is a compact, high-reliability computing platform tailored for deployment in air, land, and maritime environments.

It is designed for mission-critical applications requiring a fanless conduction-cooled system with secure data handling, edge computing, and communication interface capabilities.

Featuring a Mini-COM Express Type-10 module and a rugged chassis, it offers the defense sector a fully qualified and easily adaptable solution backed by long-term product support.

The unit supports flexible storage with both an internal M.2 SATA SSD slot and a removable 2.5" SSD tray. Expansion is enabled through four AcroPack/mini PCIe slots, allowing integration of I/O modules for Ethernet, serial comms, avionics protocols, and more.

System integrators benefit from its field-proven design and durable construction, ensuring long life-cycle use under extreme environmental conditions. MIL-DTL-38999 connectors and wide-range DC power input are available to meet stringent aerospace and defense integration requirements.

FEATURES

- **CPU Option: Intel Core™ i7-1185GRE, Intel® Core™ i7-8665UE or Intel® Atom™ E3950**
- **Memory up to 16GB LPDDR4X or 8GB DDR3L depending on CPU**
- **2x Ethernet Gigabit (10/100/1000Base-T)**
- **Modular I/O expansion y 4x AcroPack/mini PCIe slots**
- **Supports secure, field-swappable storage 1x Removable 2.5" SATA SSD and 1x Internal M.2 SATA SSD**
- **Conduction cooled system**
- **IP65 sealed enclosure with MIL-grade connectors**
- **Qualified according DO-160, MIL-STD-461, MIL-STD-810**
- **ITAR-free**

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TECHNICAL SPECIFICATIONS

SYSTEM

CPU Options	I Intel® Atom™ E3950 @ 1.6GHz, 12W, Quad-Core, 8GB DDR3L Intel Core™ i7-1185GRE @ 1.8GHz, 15W, Quad Core, 16GBBytes LPDDR4X Intel® Core™ i7-8665UE @ 1.7GHz, 15W, Quad-Core, 8GB DDR3L
Memory	8GB DDR3L (Atom E3950, i7-8665UE) 16GB LPDDR4X (i7-1185GRE)
TPM	TPM 2.0 Infineon Software TPM (Intel® Core™ i7-8665UE)
Ethernet	2x 10/100/1000Base-T Ethernet (Intel i210 / i219)
Storage	1x internal M.2 (S42) SATA SSD slot, 1x removable 2.5" SATA SSD drawer
Motherboard	Mini-COM Express Type 10 module
Front I/O	Power LED on front panel, Power and Reset buttons via MIL-DTL-38999 connector
Expansion I/O	4x AcroPack / mini PCIe slots supporting Ethernet, ARINC429, MIL-STD-1553, RS232/RS422, DIO, ADC, DAC, CAN bus, etc.
GPIO	2x GP Inputs (LVTTL) 2x GP Outputs (LVTTL)
Video output	1x DVI-D single link output
Audio	1x Line In, 1x Line Out

POWER SUPPLY

Power Supply	+28VDC (+12VDC up to +36VDC)
Power Consumption	Up to 30W, 25W typic

MECHANICAL

Dimensions	205 x 90.2 x 140 mm (W x H x D)
Connectors	MIL-DTL-38999 connectors Front panel customizable for specific applications
Cooling	Conduction cooled system: convection & radiation by fins, conduction by cold plate or forced air flow

ENVIRONMENTAL - (DESIGN TO MEET)

Operating Temperature	Standard: -40 C / +55 C Extended: Up to +71 C (depending on the configurations)
Operating Humidity	0% to 95% non-condensed (depending on the configurations)
Storage Temperature	-40C / +85 C
Altitude	Up to 50 000 feet
Vibrations	40g@11ms ; DO-160
Operating Shock	40g@11ms ; DO-160
Certifications	European CE Mark, REACH, RoHS, WEEE, CoC

The computers are designed in accordance with the environmental specifications indicated.
Some parameters depend on the configuration. Equipment may be subjected to dedicated test profiles.