

The FALCON II is a rugged small form factor (SFF) conduction cooled computer system, specifically tailored for the avionic, military and rugged industrial market. The system offers the best utilization of size, weight and power (SWaP) in the industry and strictly adheres to commercial Off the Shelf (COTS) standards in the industry. Though its small in size, the Falcon II is mighty.

The Versatile Falcon II can be configured with the latest high-performance CPU and Interfaces, as well as the best SWaP optimized, low power, System on Chip (SOC) processors; and every solution in between.

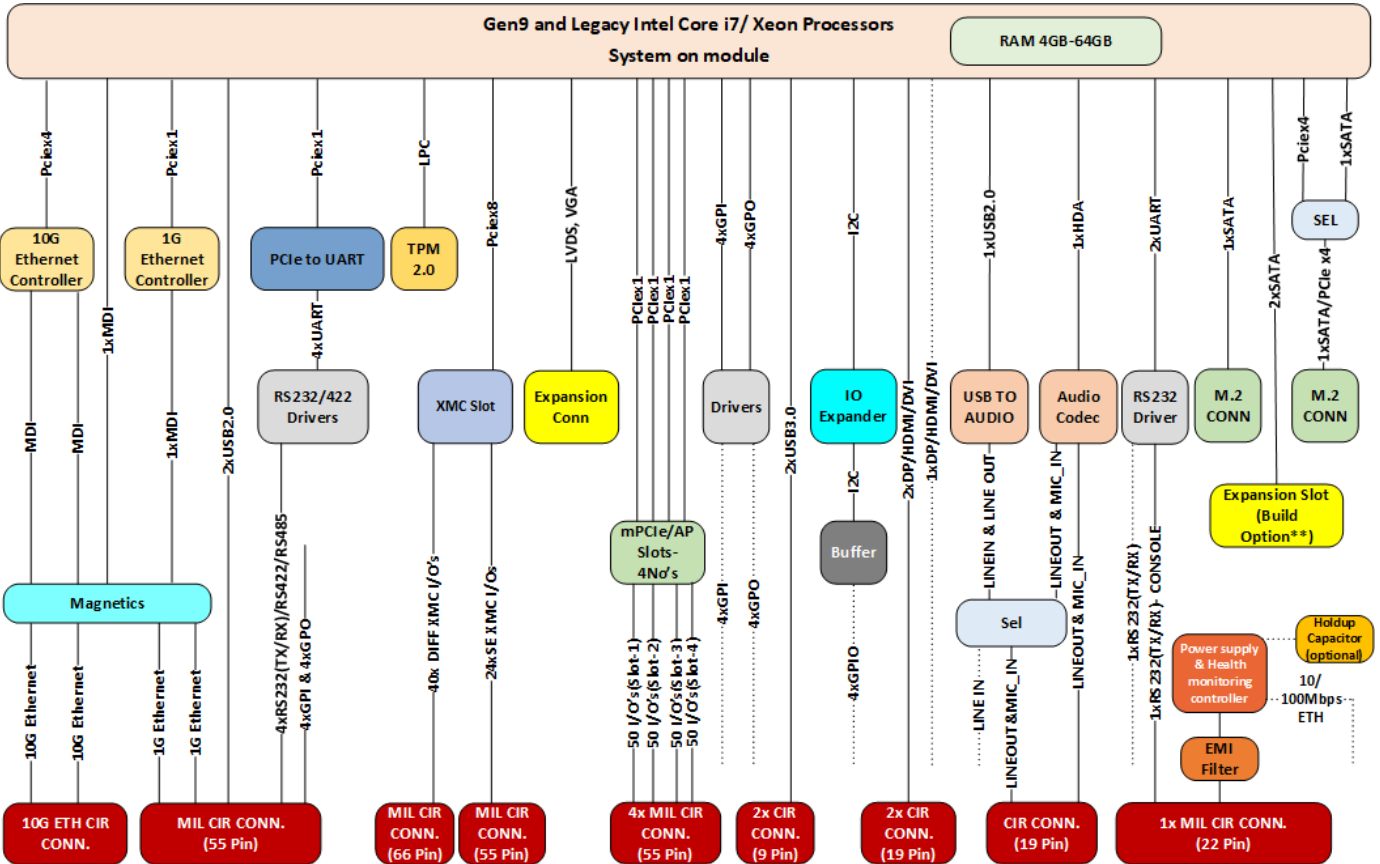
The Falcon II can support variety I/O typically needed in the targeted applications, including MIL-STD-1553B, ARINC-429, Video & Graphics, RS-232/422/485, Fibre Channel, GigE and 10GigE, Analog and Discrete signals, and FPGAs. The I/O can be expanded through XMC or MiniPCle IO modules, including Acromag's revolutionary "Plug and Play" Acropack. There are additional options for Inertial Measurement and Navigation, GPS, Wi-Fi and Cellular Modem functions

## FEATURES

- **CPU:** Intel Core i7/ Xeon E3 Processors 9<sup>th</sup> Generation or latest
- **Cores:** 4 or 6 Cores
- **Memory:** up to 64 GB DDR4 RAM (with or without ECC)
- **Storage:** up to 1980GB with M.2 Interface
- **Integrated Graphics:** Intel UHD Graphics Controller
- **Video Outputs:** 2 x Display Ports
- **I/O's (Standard):**
  - 2 x 10G Ethernet (Copper or Fiber)
  - 2 x 1 Gigabit Ethernet (PoE+ Option)
  - 2 x USB 3.0, 2 x USB 2.0
  - 1 x HD AUDIO
  - 4 x RS232 (TX/RX)/RS422/RS485
  - 1 x RS232 (TX/RX- Console)
  - 8 x GPIOs
- **I/O's Expansion:**
  - 4 x MiniPCle / AcroPack Sites (Gen 3 PCIe)
  - 1 x XMC Site (x8 Gen 3 PCIe), VITA 42 Compliant
- **Security:** TPM 2.0 (optional)
- **Dimensions:** 217mm x 260mm x 105mm
- **Weight:** ≤ 4.3 to 4.9 Kgs. (Configuration Dependent)
- **Connectors:** MIL-Circular
- **Storage Expansion - Option:** 1 x SATA -III SSD Mass Storage Drive (with optional Secure Erase or Zeroize Function)
- **Health Monitor:** System Health Monitor & Control (Optional)
- **Power:** 28 VDC @ 25-100 Watts (Configuration Dependent)
- **Operating Temp:** -40°C to +55 °C, up to +71°C (Depending on Thermal Load)
- **Storage Temp:** -40°C to +85 °C
- **Environmental:** MIL-STD-461G, MIL-STD-704F, MIL-STD-1275E and MIL-STD-810H
- **Cooling:** Fanless Conduction Cooled
- **Operating System Support:** Windows 10, Linux & VxWorks



**\*Note:** Various Configuration & Build Options are available, contact us for details.



### Dimension in mm

