

FALC-20

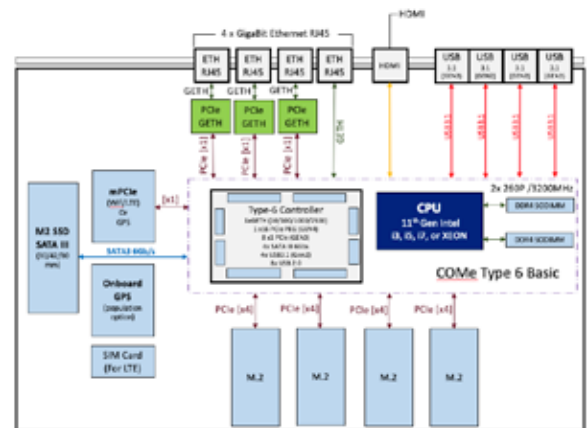
MARKETS SERVED

- ⬆ Video Surveillance & Security
- ⬆ Smart City
- ⬆ Autonomous Transportation
- ⬆ Robotics
- ⬆ Construction & Mining
- ⬆ Defence & Public Infrastructure
- ⬆ Agriculture



PRODUCT HIGHLIGHTS

- ⬆ Multiple Small Form Factors options with various cooling methods
- ⬆ Ultimate flexibility:
 - ⬆ Expansion for GSP, memory, & wireless interfaces
 - ⬆ COMe Type 6 for processor optimization (x86, ARM, etc.)
- ⬆ Two Form Factor options
- ⬆ Up to 5 Hailo-8 AI Accelerators providing up to 130 TOPS of AI processing performance
- ⬆ 5-40 HD 1080P cameras dependent on fps requirements



1 to 5 Hailo-8 Configuration

FEATURES

OPERATING SYSTEM	Windows IOT, Ubuntu 20.04
PROCESSOR	Multiple 11 th generation Intel processor options including Core i3, i5, i7, and XEON with 4 to 8 cores @ up to 2.6GHz
MEMORY	3x SODIMMS up to 128GB DDR4 (3200 MHz)
AI COMPUTE AND STORAGE EXPANSION SLOTS	<ul style="list-style-type: none"> • Up to five (5) x4 PCIe 3.0 expansion slots for Hailo-8 Accelerators. Each providing 26 TOPS in under 5W TDP per chip • Up to 1TB via M.2 (SATA 3) memory slot in S30, S42 or S80 formats
WIRELESS CONNECTIVITY	Optional: WiFi 802.11 a/b/g/n/ac Optional: GSM/GPRS/LTE Cellular Support Optional: 72 Channel Engine Concurrent, Multi-GNSS: GPS, GLONASS, GALILEO, QZSS, SBAS
POWER REQUIREMENT	MIL-STD-1275, MIL-STD 461, 18 to 36V (200W max)
MECHANICAL¹	Two form factors, with dimensions (H x W x D) of: - Fan-cooled – 2.00" x 8.00" x 13.3" - Conduction-cooled – 3.6" x 9.9" x 11.9"
ENVIRONMENTAL	Operating temp.: -40°C to 70°C Storage temp.: -40°C to 85°C
I/O	Up to Four (4) 1GbE Ethernet Ports Four (4) USB 3.1 Gen 2 (10G) One (1) HDMI port
COMPLIANCE	RoHS, WEE, CE, FCC

¹ TBC based on thermal simulations in progress



ORDERING INFORMATION

Contact us at **855.365.2188** or visit octagonsystems.com/request-quote to begin the ordering process.

