

FIRE-FALC

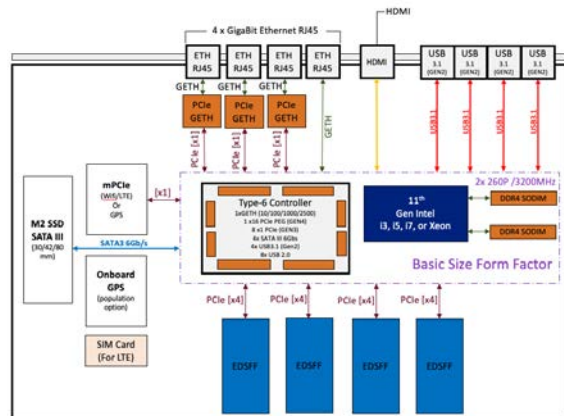
MARKETS SERVED

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



PRODUCT HIGHLIGHTS

- ⊕ Multiple Small Form Factors options
- ⊕ Ultimate flexibility:
 - ⊕ Expansion for GSP, memory, & wireless interfaces
 - ⊕ COMe Type 6 for processor optimization (x86, ARM, etc.)
 - ⊕ Two cooling methods available
- ⊕ Up to 4 Blaise® Xplorer™ X1600E Accelerators providing up to 64 TOPS and H.265 & H.264 video encode and decode
- ⊕ 5-40 HD 1080P cameras dependent on fps requirements



Single to Quad X1600E Configuration

FEATURES

OPERATING SYSTEM	Windows IOT, Linux 5.3.0-46 or later, Ubuntu 18.04
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)
GRAPHICS & STORAGE EXPANSION SLOTS	Up to four (4) x4 PCIe 3.0 expansion slots for: - Blaize® Xplorer™ X1600E Accelerators. Each with a 16 core El Cano GSP 1600 SoC providing 12 or 16 TOPS, 4GB VRAM, and 7-15W TDP per chip, or; - E1.S SSD cards 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
SENSOR CONNECTIVITY	Up to 6 HD resolution cameras, 1080P @ 30fps 2 cameras, 8K @ 15fps
VIDEO	H.265 & H.264 video encode and decode
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 13.25" - Conduction-cooled – 3.55" x 9.85" x 11.88"
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

