



Ruggedized Fanless Compute: Granada Industrial PC Intel® Xeon® D-1500 based

Product Description

Silicom's fanless ruggedized systems are based on the Intel® Xeon® D-1500 (Broadwell DE) product line is a highly flexible network edge industrial ruggedized fanless device that brings the agility of x86 Compute and networking in Multi-Access Edge Computing (MEC).

The Granada platform support with PCIe x16 Gen3 full height half length (FHHL) standard PCIe extension with up to 40W available power.



Technical Specifications

General Technical Specifications	
CPU	Intel® Xeon® D-1567/12C/2.1 GHz/TDP 65W
BIOS	UEFI 2.4.1, Secure Boot, Secure Flash
BIOS Flash	SPI Flash
Operating System	Linux VMware ESXi 6.5
Memory	Two memory channels: DDR4, DIMM, Up to 64GB, ECC Support, 2133MT/s
Storage	M.2 M-Key NVMe, PCIe3.0 x4 (supports for 22110, 2280), Max. Capacity: 4GB M.2 B-Key SATA3.0 (supports 2280), Max. Capacity: 2GB M.2 B-Key SATA3.0 (supports 22110, 2280, 2260), Max. Capacity: 2GB
Ethernet ports	Up to 4 ports: 2 x10GbE SFP+ (SR,LR,DAC) via X552/Inphy. 2x 1GbE RJ45 via i210-AT.
USB 3.0	4x USB 3.0, USB 2.0, Type-A connector on front panel
USB 2.0	1x USB 2.0, Type-A connector, internal, security
SATA3.0	4x SATA3.0, 7P, internal
NGFF/M.2	M.2 B-Key USB 3.0, USB 2.0, uSIM (supports for 3042), 3.3V card only M.2 E-Key PCIe2.0, USB2.0 x1 (supports 3042/30)
mPCIe	1x PCIe2.0, USB2.0, support uSIM, half mPCIe
AUDIO	2x Audio IN, Audio OUT

PCIe Expansion	Support for x16 Gen3 Card, up to 40W
LTE	M.2 LTE Slot (B-Key)
WiFi	M.2 WiFi/WiGi/BT Slot (E-Key) mPCIe WiFi/BT/CAN/RAID
TPM2.0	AES, HMAC, SHA-1, SHA-256, RSA1024, RSA2048, ECDH, ECC256, ECC-NIST P-256, ECC BN-256, ECC
Buttons	Power Button w/ Auto on
LED's	LED 1 (TOP) Power – GREEN, Memory Init -blink RED LED 2 SATA activity ,GREEN LED 3 UID,RED LED 4 N/A
Dimentions	98x195x200mm
Power	13.6V-24V DC (Protection: Reverse polarity, OV, UV, OC)
Weight	3.5kg+add-ons
Power consumption	Maximum: TBD Typical: TBD The total power consumption of the card depends on user application
Cooling	Fanless, conventional air
Operating Temperature	-20°C – 60°C
Storage Temperature	-40°C – 85°C
Humidity	95% @40°C(non-condensing)
Regulation:	CE, FCC, AS/NZS EN-60950-1, AS/NZS ETSI EN 300 019-2-5 V3.0.0:2002-12
MTBF*	* According to Telcordia SR-332 Issue 2. Environmental condition – GB (Ground, Fixed, and Controlled). Ambient temperature 40°C

Order Information

P/N	Description	RMN:	RTN:
90500-0158-G00	Rugged system, D-1567 (12C)/64GB DDR4 w/ECC/2x1GbE/2x10GbE	ID1300	ID1300.00