GECCO

EdgeCard™ Server

Ultra compact, rugged, fanless, pluggable server

- Wide range of Intel Xeon and AMD Epyc processors, memory and AI accelerator options
- OpenVPX/VITA65 compliant rear interfaces, with front connectors and 3U size
- Secure remote management, KVM & BIOS access
- Internal NVMe/SATA SSD up to 16TB, 1-10Gbps network interfaces

Ideal platform for virtualized and containerized edge computing in retail, resource industries, manufacturing, defense, telecom, infrastructure, and others!

Small size, big features: multi-core processor, AI accelerator, high-capacity solid-state storage that fits in the palm of your hand!

Actual size 100 mm

Actual size 171 mm

OpenVPX™

OpenVPX (VITA65) enjoys a strong pedigree of interoperability for defense and aerospace applications.

SWaP/C: Size, Weight, Power & Cooling

- The compact design makes it is easier to ship, store, remove and install – perfect wherever space and weight are constraints.
- Low power and passive cooling saves on the cost & complexity of the power supply & cooling system, while dramatically decreasing the carbon footprint!

EdgeCard™ Server – Key Features

- Intel Xeon and AMD Epyc multi-core processors, AI accelerators
- Compact 171mm x 100mm size; easy handling, low shipping cost, easy upgrades in remote and understaffed locations
- Ruggedized design for wide temperature range, vibration and shock
- Low power operation, easy to deploy; low heat load on cooling system
- Pluggable design eliminates wiring errors and loose connections
- Supports virtualization & containerization for HCI deployments
- Fast recovery from outages & disasters; emergency preparedness
- Standalone operation for simple configuration and testing
- Integrated BMC for remote management; zero touch provisioning, monitoring and remote upgrades

Specifications

Processor family	Intel XEON D-1500 series, AMD Epyc E-3000 series
Processor memory	16GB to 64GB DDR4
Storage memory	Up to 16 TB SSD (NVMe/SATA)*
External interfaces (front)	USB-C/3.1, DisplayPort,1000BASE-T
External Interfaces (rear)	VPX VITA 65 I/O SOSA profile* 10GBASE-KR Host, 1000BASE-T BMC PCIe 2.0, PCIe 3.0, DisplayPort 1.1 USB 3.1, USB 2.0, SATA3 options*
Remote Management	OpenBMC
Operating Temperature	0°C to 55°C (32°F to 131°F) -40°C to +70°C (-40°F to 158°F)
Humidity	93% @ 40°C (non-condensing)
Shock and vibration	20G, 11 rms half sine 2Grms @ 5 – 100 Hz
Input power	12VDC (VPX rear) or USB (front)
Power consumption	35W to 85W TDP (see order options)
Dimensions	171mm x 100mm x 26mm (6.7in x 3.9in x 1.0in)
Weight	0.63 kg (1.4 lb)
Noise level	N/A (no moving parts)
Warranty	5 years

Note: All specifications are subject to change without notice.
*Features available by special order; contact GECCO for details.

Ordering

GVS7 – P␣␣ – D␣ – M␣␣

P␣␣	XD	Intel Xeon D1559, 12c 1.5 GHz, -45C to +85C, 45W
	XC	Intel Xeon D1539, 8c 1.6 GHz, -45C to +85C, 35W
	XB	Intel Xeon D1577, 16c 1.3 GHz, 0C to +60C, 45W
	XA	Intel Xeon D1548, 8c 2.0 GHz, 0C to +60C, 45W
	ED	AMD Epyc E3255, 8c, 2.0 GHz, -45C to +85C, 35-55W
	EC	AMD Epyc E3451, 16c, 2.45 GHz, 0 to 60C, 85W
	EB	AMD Epyc E3351, 12c, 1.9 GHz, 0 to 60C, 65-80W
	EA	AMD Epyc E3251, 8c, 2.5 GHz, 0 to 60C, 55W
D␣	C	64GB DDR4 SODIMM dual channel memory
	B	32GB DDR4 SODIMM dual channel memory
	A	16GB DDR4 SODIMM dual channel memory
M␣␣	XX	No solid-state drives
	D	8TB NVMe module (either slot)
	C	4TB NVMe module (either slot)
	B	2TB NVMe module (either slot)
	A	1TB NVMe module (either slot)
	H	Hailo-8 AI Accelerator (either slot)

Example:

GVS7–PXC–DC–MCC
EdgeCard Server with Intel Xeon 8-core processor, 64GB DDR4 and dual 4TB NVMe SSDs

Contact GECCO for additional options including AI accelerators and standalone cooling.
All order options subject to availability

About Green Edge Computing Corp

We provide compact small footprint ready-to-go edge computing solutions for high performance, industrial IoT, mobile, harsh and remote edge locations.

www.g3cco.com