

V7G GPU System

The **V7G GPU System** from Connect Tech combines Intel® Xeon® D (Server Class) and Intel® Atom™ C3000 x86 processors with high-end NVIDIA® Quadro® and Tesla® Graphics Processing Units (GPU) all into a small form factor embedded system. Choose from highest-end, highest-performance models or from low-powered models all ideal for high-end encode/decode video applications or GPGPU CUDA® processing, Deep Learning and Artificial Intelligence applications.

This embedded system exposes all of the latest generation interconnect including: 10GbE and Gigabit Ethernet, USB 3.0, HDMI, SATA III, GPIO, M.2, miniPCle. The black aluminum enclosure has two mounting options: Half-rack rail mount or Standalone mounting brackets.

Product Name:

V7G GPU System

Part Numbers: ESG701, ESG702, ESG703, ESG704, ESG705, ESG706, ESG710, ESG711, ESG712



FEATURES

✓ *High-End GPUs paired with Intel® Xeon® D Server Class and Intel® Atom™ C3000 x86 Processors*

✓ *4 independent display outputs or GPGPU processing system using CUDA® cores*

✓ *Black Aluminum Enclosure*

✓ *Mounting Options: **Half-rack** (shown in case) or **Standalone***



Specifications	
CPU Module Options	• Intel® Xeon® D1577 (16 x 1.3 / 2.1 GHz, 24MB cache, 45 W) • Intel® Xeon® D1559 (12 x 1.5 / 2.1 GHz, 18MB cache, 45 W) • Intel® Atom™ C3958 (16 x 2.0 / 2.0 GHz, 16MB cache, 31W) • Memory: 48GB DDR4 2400 MT/s ECC
GPU Module Options	• NVIDIA® Quadro® P5000 – (Pascal, 2048 CUDA Cores, 100W) • NVIDIA® Quadro® P3000 – (Pascal, 1280 CUDA Cores, 75W) • NVIDIA® Tesla® P6 – (Pascal, 2048 CUDA Cores, 90W, ECC)
Ethernet	4x 1GBE / 1000BASE-T (RJ-45) 2x 10G (SFP+) <i>4x 10G model available with upcoming Denverton processor SKUs only</i>
Display Output	4x HDMI 2.0 Type A (Only available on some models)
Video Input Options	2x 3G-SDI Inputs 2x HDMI Inputs 16x Composite/Analog Inputs - NTSC/PAL 2x Camera Link Inputs (via mini PCIe or M.2)
USB	4x USB 3.0 Type A Ports
Storage Expansion	2x NVMe SSD Storage (Removable via bottom access panel) 1x 2.5" SATA SSD/Mech Storage (Removable via front panel drawer)
IO Expansion	2x mini PCIe Slots (Accessible from removable access panel) 2x M.2 (Accessible from removable access panel)
GPIO	4 inputs (3.3V/5V selectable) 4 outputs (3.3V/5V selectable)
Input Power	+12V Input Only
Misc	Recessed Reset Button Status LEDs
Operating Temperature	TBD
Weight	TBD
Thermal Solution	Integrated Active Forced-air Thermal Solution
Mounting Options	• Half-rack Operation – Rackmount Rail Option • Standalone Operation – Bottom Side Rail Option
Misc Mechanical Details	Material: Aluminum Finish Color: Black Powder Coat
System Dimensions	Half Rack Width, 2U Height Outer Dimensions without mounting rails installed: 9" x 3.5" x 7.125" (228.6mm x 88.9mm x 181.0mm)

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Ordering Information

Part Number	CPU	GPU	Display Output
ESG701	Intel® Xeon® D1577	NVIDIA® Quadro® P5000	4x HDMI Variant
ESG702	Intel® Xeon® D1577	NVIDIA® Quadro® P3000	4x HDMI Variant
ESG703	Intel® Xeon® D1577	NVIDIA® Tesla® P6	No Display Output Variant
ESG704	Intel® Xeon® D1559	NVIDIA® Quadro® P5000	4x HDMI Variant
ESG705	Intel® Xeon® D1559	NVIDIA® Quadro® P3000	4x HDMI Variant
ESG706	Intel® Xeon® D1559	NVIDIA® Tesla® P6	No Display Output Variant
ESG710	Intel® Atom™ C3958	NVIDIA® Quadro® P5000	4x HDMI Variant
ESG711	Intel® Atom™ C3958	NVIDIA® Quadro® P3000	4x HDMI Variant
ESG712	Intel® Atom™ C3958	NVIDIA® Tesla® P6	No Display Output Variant

Note: Other CPU and memory options available upon request

Mounting Options



Half-rack



Standalone

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