

Cupcake 2

Edge Server/Gateway



Unigen's Cupcake 2 Edge Server enables our customers to take on complex workloads, process locally, and only send the key data back to cloud applications or to enterprise data centers. This allows you to reduce operational expenditure on cloud services and data transfers while reducing the computation latency. Cupcake has the right combination of I/O Interfaces and Expansion Capabilities to capture and process video and multiple types of signals through its POE ports and then to deliver the processed data to the client either over a wired or wireless network.

Ruggedized Design

The Cupcake 2 combines the secure performance of a 4-Core Intel Atom SOC wrapped up in a compact, fan-less, rugged chassis. This allows the OS and Applications to run on the SOC while the integrated Intel GPU handles video encode/decode processing in parallel. This Edge Server is a capable performer for Delivery, Transportation, Retail, Agriculture, Healthcare, Manufacturing, Hospitality and Security.

Multiple Interfaces & Expansion Capabilities

The Cupcake 2 features an array of IO capabilities with 4 GbE POE ports, multiple USB, HDMI 2.0 and a selectable RS232. Internal and external expansion is available from an SD Card Slot as well as multiple M.2 slots for wireless communication, Micro SIM and an EDSFF for storing large amounts of data on an E1.S SSD.

Private Clouds

The Cupcake 2 platform has partners that are ready and able to provide direct to cloud solutions both on the premise as well as with local cloud colocation centers where data can be safely stored, made available for extra computation and accessed with excellent QoS for management applications.

Options (See Selection Guide)

Available with WiFi, 4G, 5G, GPS, GSSS, Memory up to 32GB DDR4, Up to 3.84TB NVMe SSD

System	
CPU	Intel® Atom® x6414RE Processor SoC
Memory	16GB DDR4 2400 SO-DIMM
Graphics	Intel® UHD Graphics
Storage	64GB SSD
Ethernet	GbE x 1, GbE With POE+ (30W Max) x 4
Audio	Line in x1, Line out x 1, Mic in x 1
Display	HDMI 2.0b x 1
USB	USB 3.1 Type A x 2 USB Type C
Expansion Slot	SD card slot x 1 M.2 2230 E-key x 1 for AI of WiFi M.2 2242/2280 M-key x 1 (SATA III/PCIe Gen 3.0) M.2 2042 B-key x 1 E1.S 4-lane PCIe 3.0 x 1 (EDSFF) for Additional Data Storage Micro SIM slot x 1
I/O Placements	
Power	12V DC-IN connector and power button
Reset	Reset button
Debug port	USB to UART Micro B
COM	D-Sub 9-pin connector x 1 selectable RS232
CAN	4-Pin terminal block header
Power	12V DC 10A
Security	TPM 2.0
OS Support	Linux, Microsoft
Dimension	170mm x 158mm x 49.5mm
Weight	3.05 lbs
Operating Temperature	0°C ~ 50°C
Benchmark	
Passmark Tests (Non-AI Performance)	Score (Composite: 1227.8 Marks)
Storage Performance	1692 Marks
Memory Performance	1036 Marks
CPU Performance	2181 Marks
Low End Graphics	59.3 Marks
Cinebench	739.3
WinRAR I/O	1714 KB/s

