



## EGS-MX1

### Embedded GPU System w/MXM Graphic Card

- > w/ COMe Type 6 Carrier Board (ESM-CFH)
- > Support MXM Type A/B Socket
- > Rich I/Os, including 4-USB Port, 8/16-Bit GPIO, 2-SATA III (M.2 and 2.5 inch SSD), 2-RS232, Expansion Slots, including M.2 Key-B, M.2 Key-E, mPCIe
- > Multiple Display, Max. Up to 7-HDMI (4 from MXM graphic)
- > 240mmx 240mm x 85mm
- > Support 0°C ~ 50°C

#### + Spec

System Information	
<b>Processor</b>	Core™ i7-9850HE 45W (35W cTDP), 6C/GT2 (non-ECC) Core™ i5-8400H 45W (35W cTDP), 4C/GT2 (non-ECC) Core™ i3-9100HL 25W, 4C/GT2 (non-ECC)
<b>Platform Controller Hub</b>	QM370 (supports Intel® AMT and PEG configuration)
<b>System Memory</b>	Up to 3x 260-pin DDR4-2400/2133 SO-DIMM with up to 96 GB, depends on CPU sku.
<b>BIOS Information</b>	AMI uEFI BIOS, 128 Mbit SPI Flash ROM iAMT 12.0 supported (only on specific models with i7/i5 SKU)
<b>Watchdog Timer</b>	H/W Reset, 1sec. ~ 65535sec. and 1sec./step
<b>H/W Status Monitor</b>	Monitoring System Temperature, Voltage and FAN Status with Auto Throttling Control
<b>SBC</b>	EEV-MX01+ESM-CFH
Expansion	
<b>Expansion</b>	1 x M.2 Key-B 2242/3042/2260/2280 (SATA/PCIe/USB2.0) 1 x M.2 Key-E 2230 for Wi-Fi & BT Module (PCIe/USB2.0) 1 x Full/Half Size mini PCIe (PCIe/USB2.0) 1 x Type A/B MXM Slot
Storage	
<b>Storage</b>	1 x 2.5" internal Drive Bay 1 x M.2 Key-B 2242/2280
I/O	
<b>USB Port</b>	4 x USB 3.2 Gen.1 Type-A (Gen. depends on COMe module, contain 4 x USB2.0 signal)
<b>COM Port</b>	2 x RS-232 (via cable)
<b>GPIO</b>	1 x 8/16-Bit GPIO (via cable)
<b>SIM Slot</b>	2 x internal SIM slot
Display	
<b>Graphic Chipset</b>	- Intel® Coffee Lake Processor integrated Graphics - MXM GPU
<b>Spec. &amp; Resolution</b>	3 x HDMI 1.4: 4096x2160 @30Hz (from COMe) 4 x HDMI 2.0: 4096x2160 @60Hz (from MXM)
<b>Multiple Display</b>	7 x HDMI
Audio	
<b>Audio Codec</b>	Realtek ALC888S HD codec
<b>Audio Interface</b>	1 x Mic-In, 1 x Line-Out
Certifications	
<b>Certification Information</b>	CE/FCC
Ethernet	
<b>LAN Port</b>	2 x RJ45
Power Requirement	
<b>DC Input</b>	+12Vdc (±5%)
<b>DC Input Connector</b>	ATX 10pin
<b>ACPI</b>	Single power ATX Support S0,S3, S4, S5 ACPI 5.0 Compliant
<b>Power Mode</b>	AT/ATX (ATX is default setting)
Mechanical & Environmental	
<b>Operating Temperature</b>	0°C ~ 50°C (w/SSD) ambient w/ 0.2 air flow
<b>Storage Temperature</b>	-40°C ~ 75°C (-40°F ~ 167°F)
<b>Operating Humidity</b>	40°C @ 95% Relative Humidity, Non-condensing



<b>Dimension (W x L x H)</b>	240mm x 240mm x 85mm
<b>Weight</b>	3.2kg (system)
<b>Vibration Test</b>	With SSD: 1.5 Grms, IEC 60068-2-64
<b>Shock Test</b>	With SSD: 10G, IEC 60068-2-27
<b>Mounting Kit</b>	w/ wall mount kit (standard)
<b>Color</b>	black + blue
<b>Software Support</b>	
<b>OS Information</b>	Win, Linux
<b>Ordering Information</b>	
<b>Ordering Information</b>	<p>System Standard Ordering PN:</p> <ul style="list-style-type: none"> <li>- EGS-MX1-985-A1-1R (w/ i7-9850HE)</li> <li>- EGS-MX1-840-A1-1R (w/ i5-8400H)</li> <li>- EGS-MX1-910-A1-1R (w/ i3-9100HL)</li> </ul> <p>Note:</p> <ul style="list-style-type: none"> <li>- Standard ordering PN w/ COMe module and cooler.</li> <li>- Standard ordering PN w/o power cord, adapter, MXM card and cooler, need to be ordered separately.</li> </ul> <p>Accessories List:</p> <ul style="list-style-type: none"> <li>- ACC-PCIE-MXM-01R (MXM3.1 Type A, NVIDIA GeForce GT 1030, M3N1030-JN)</li> <li>- ACC-PCIE-MXM-02R (MXM3.1 Type A, NVIDIA GeForce GTX 1050Ti, M3N1050THLN)</li> <li>- ACC-PCIE-MXM-03R (MXM3.1 Type B, NVIDIA GeForce GTX 1060, 6GB GDDR5, M3N1060-MN)</li> <li>- ACC-EEVMX01-CL-1R (Cooler for NVIDIA GeForce® GT1030/GTX1050Ti/GT1060)</li> </ul>