



# GM330-BFF

G-Series



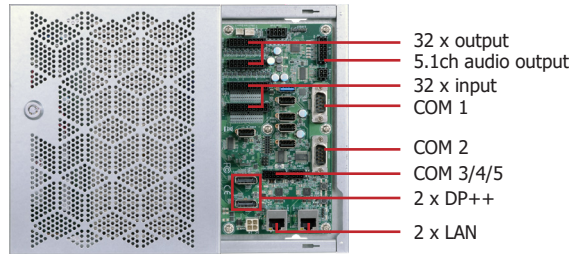
## ► Features

- AMD® Embedded G-Series Processor
- Comprehensive gaming features
- 2 DP++, 5 COM, 7 USB, 2 LAN and M.2 support
- 12V DC single input
- Stereo audio amp output

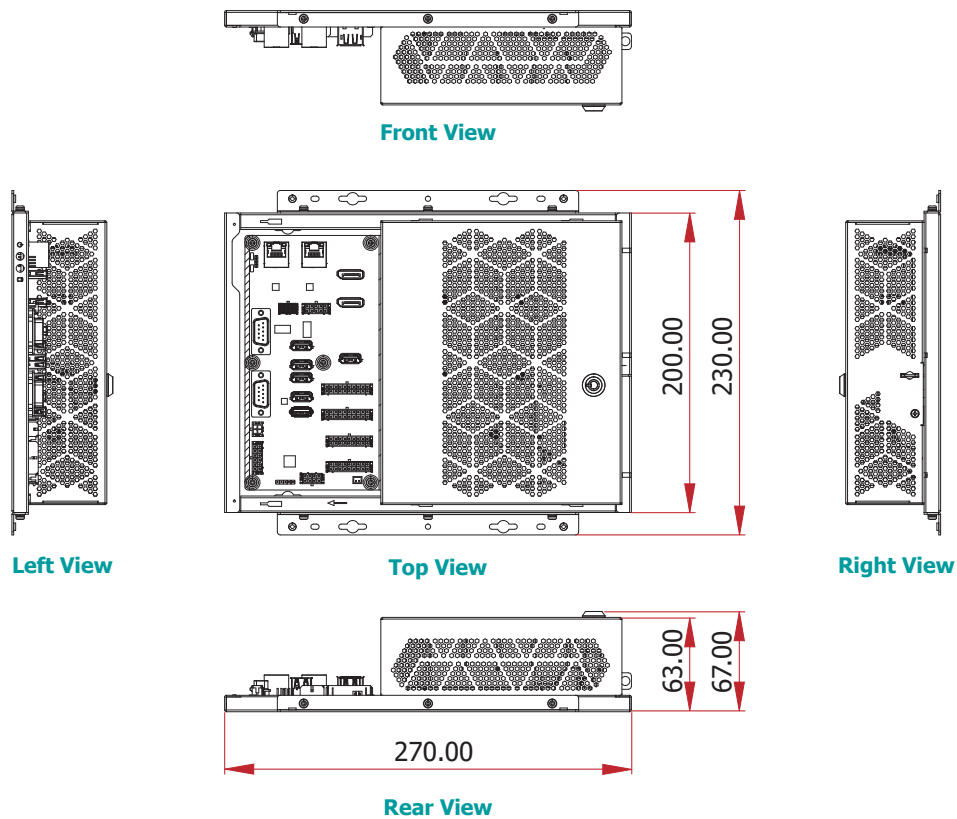


## ► Panel

### Top View



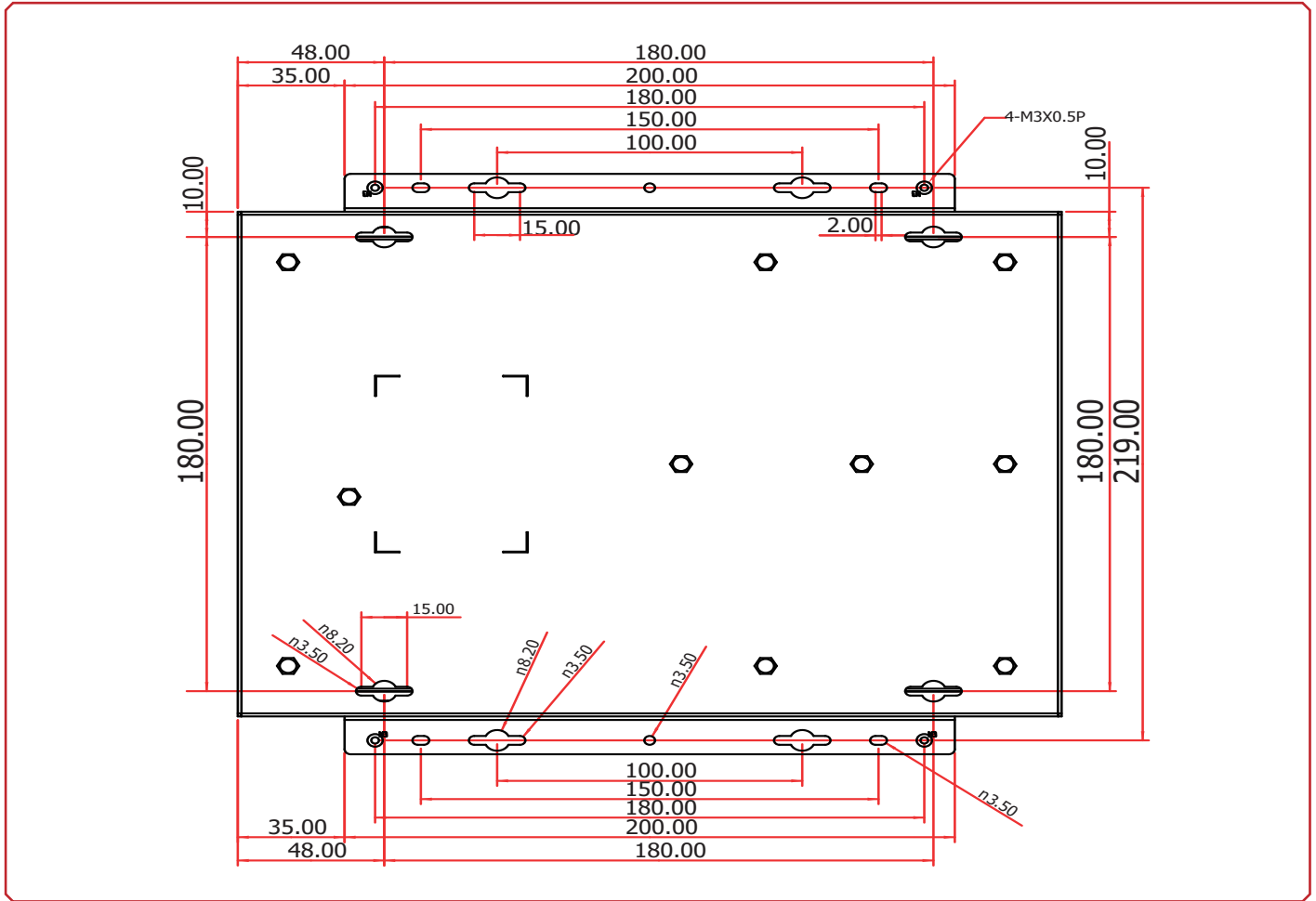
## ► Dimensions



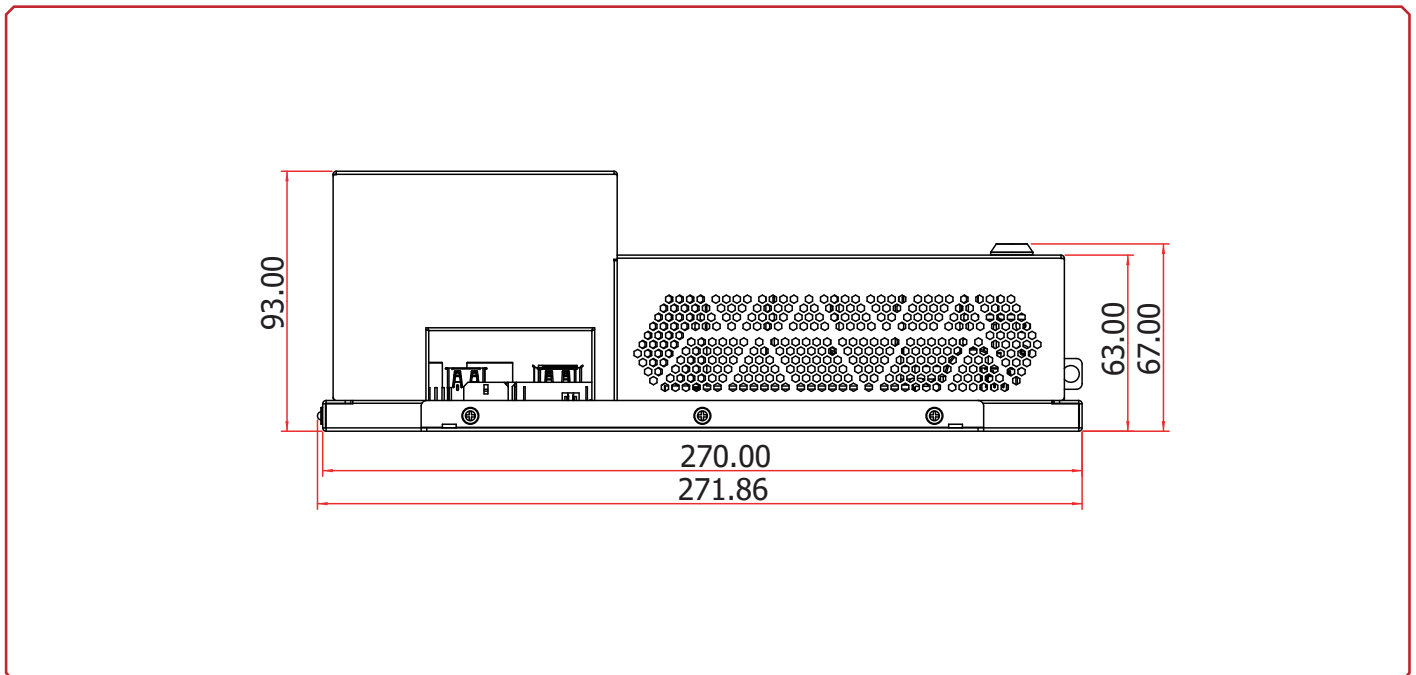
## Specifications

<b>SYSTEM</b>	<b>Processor</b>	AMD® Embedded GX-217GI, Dual Core, 1MB Cache, 4 CU, 1.7GHz (2.0GHz), 12-25W AMD® Embedded GX-224IJ, Dual Core, 1MB Cache, 3 CU, 2.4GHz (2.8GHz), 10-15W AMD® Embedded GX-220IJ, Dual Core, 1MB Cache, 2 CU, 2.0GHz (2.2GHz), 10-15W
	<b>Memory</b>	AMD® Embedded GX-217GI : Two 260-pin SODIMM up to 32GB Dual Channel DDR4 3200MHz AMD® Embedded GX-224IJ / GX-220IJ : One 260-pin SODIMM up to 16GB Single Channel DDR4 3200MHz
	<b>BIOS</b>	AMI BIOS
<b>GRAPHICS</b>	<b>Controller</b>	AMD® Radeon™ Graphics
	<b>Feature</b>	OpenGL 4.2, DirectX 12, OpenCL 1.2
	<b>Dual Displays</b>	2 x DP++ DP++: resolution up to 3840x2160 @ 60Hz
<b>STORAGE</b>	<b>Internal</b>	2 x SATA DOM with 7-pin VCC Support
<b>EXPANSION</b>	<b>Interface</b>	1 x M.2 M Key (2280, PCIe x4) Note: No SATA support
	<b>AUDIO</b>	<b>Audio</b> 5.1 Channel Audio Output S/PDIF Digital Output Stereo 10W+10W Class D Audio AMP Output
<b>ETHERNET</b>	<b>Controller</b>	2 x Realtek Ethernet LAN Controller (10/100/1000Mbps)
<b>LED</b>	<b>Indicators</b>	1 x Power LED 1 x HDD LED
<b>I/O</b>	<b>Ethernet</b>	2 x GbE (RJ-45)
	<b>Serial</b>	1 x RS-232 1 x RS-232/422/485 1 x RS-232 (Tx, Rx)/ccTalk 2 x RS-232 (Tx, Rx)/SAS/BACTA
	<b>USB</b>	2 x USB 3.0 5 x USB 2.0
	<b>Display</b>	2 x DP++
	<b>Buttons</b>	1 x Power Button 1 x Reset Button
	<b>WATCHDOG TIMER</b>	<b>Output &amp; Interval</b>
<b>SECURITY</b>	<b>TPM</b>	TPM 1.2/2.0
<b>GAMING</b>	<b>Intrusion Detection</b>	8 x Intrusion Detections Operates With and Without AC Power Logs Date/Time of Last 64 Events 5 Years Data Retention during AC off
	<b>NVRAM</b>	Supports up to 16Mbyte Coin Battery Backup to Retain Data for 5 Years during AC off Supports Battery Voltage Monitoring & Warning
	<b>DI/DO</b>	32-bit Digital Input 32-bit OC output (29-bit x 500mA, support 8 meter with disconnect detection; 3-bit x 3A)
<b>POWER</b>	<b>Type</b>	12V
	<b>Connector</b>	2 x 2 mini-fit Vertical Connector
<b>OS SUPPORT</b>		Windows 7/10 (64-bit) Ubuntu 16.04 LTS (64-bit)
<b>MECHANISM</b>	<b>Mounting</b>	Wall Mount
	<b>Dimensions (W x H x D)</b>	270mm x 63mm x 200mm
	<b>Weight</b>	3.235kg
<b>ENVIRONMENT</b>	<b>Operating Temperature</b>	0 to 45°C
	<b>Storage Temperature</b>	-20 to 85°C
	<b>Relative Humidity</b>	5 to 90% RH (non-condensing)
<b>STANDARDS AND CERTIFICATIONS</b>	<b>Shock</b>	Operation: IEC 60068-2-27 Test Ea: Shock test Half-sine, 3G @ 11ms, 18 Shock ±X, ±Y, ±Z (each axis 3 times) Non-Operation: IEC 60068-2-27 Test Ea: Shock test Half-sine, 5G @ 11ms, 18 Shock ±X, ±Y, ±Z (each axis 3 times)
	<b>Vibration</b>	Operation: IEC 60068-2-64 Test Fh: Vibration Board-Band Random Test Random, 1Grms @ 5~500 Hz, 30min. Non-Operation: IEC 60068-2-6 Test Fc: Vibration Sinusoidal Test Sweep sine, 3Grms @ 10~500Hz, 30min.

► Wall Mounting - Half Cover



► Wall Mounting - Full Cover



### ► Ordering Information

Model Name	Part Number	Description
<b>GM330-BFF-217GI</b>	750-GM3300-300G	AMD Embedded GX-217GI, 2 DP++, 5 COM, 7 USB, 4MB NVRAM, 12V DC, half cover, CPU FAN
<b>GM330-BFF-224IJ</b>	750-GM3300-400G	AMD Embedded GX-224IJ, 2 DP++, 5 COM, 7 USB, 4MB NVRAM, 12V DC, half cover, CPU FAN
<b>GM330-BFF-220IJ</b>	750-GM3300-500G	AMD Embedded GX-220IJ, 2 DP++, 5 COM, 7 USB, 4MB NVRAM, 12V DC, half cover, CPU FAN

### ► Optional Items

Optional Items	Part Number	Description
<b>Power Adapter and Cable</b>	671-110006-100G	100W adapter; Input:100~240V; Output:12V/8.33A
	A81-004110-009G	Power Cable, DC 5.5*2.5 to 2*2P/4.2mm, L=200mm
<b>SATADOM</b>	638-706410-100G	64GB, MLC, Pin7 VCC, INNODISK DESML-64GM41BCADCB-S70
	638-703212-110G	32GB, MLC, Pin7 VCC, INNODISK DESML-32GM41BCADCB-S70
<b>M.2</b>	638-706411-100G	64GB M.2 P80 3ME2, INNODISK DEM28-64GM61BCAQC
	638-703213-100G	32GB M.2 P80 3ME2, INNODISK DEM28-32GM61BCADC
<b>Memory</b>	138-540002-101G	4GB DDR4 2400Mhz SO-DIMM 1Rx8 512Mx8
	138-580004-100G	8GB DDR4 2400Mhz SO-DIMM 1Rx8 1Gx8
	138-5G0163-100G	16GB DDR4 2400Mhz SO-DIMM 2Rx8 1Gx8
<b>Windows License</b>	921-151350-000G	Win10 IoT Ent LTSC 2019 MultiLang OEI Entry EPKEA (ESD)
<b>Gaming Testing Kit</b>	770-GM9001-080G	GM900 Testing Board (774-GM9001-080G)
		6 x Intrusion detection; 2x4p cable (A81-009231-016G)
		1 x Intrusion detection; 1x2p cable (A81-009232-016G)
		16 x DI; 2x10p cable (A81-009233-016G)
		16 x DI; 2x10p cable, (A81-009234-016G)
		16 x DO; 2x9p cable (A81-009235-016G)
		16 x DO; 2x9p cable (A81-009236-016G)
		USB type B to type A cable (A81-001073-016G)

### ► Packing List

- 1 GM330-BFF system unit