EQM-A50M

AMD G-Series Qseven Module

Quick Installation Guide

1st Ed –14 March 2013

Notice

This guide is designed for experienced users to perform quick setup of the system. For detailed information, please always refer to the electronic user's manual.

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Content

1. Getting Started 3
1.1 Safety Precautions 3
1.2 Packing List 3
2. Hardware Configuration 4
2.1 Product Overview 5
2.2 Connector List 6
2.3 Setting Connectors 7
2.3.1 QSeven connector (GF1) 7

1. Getting Started

1.1 Safety Precautions

Warning!



Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

Caution!



Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

1.2 Packing List

Before you begin installing your single board, please make sure that the following materials have been shipped:

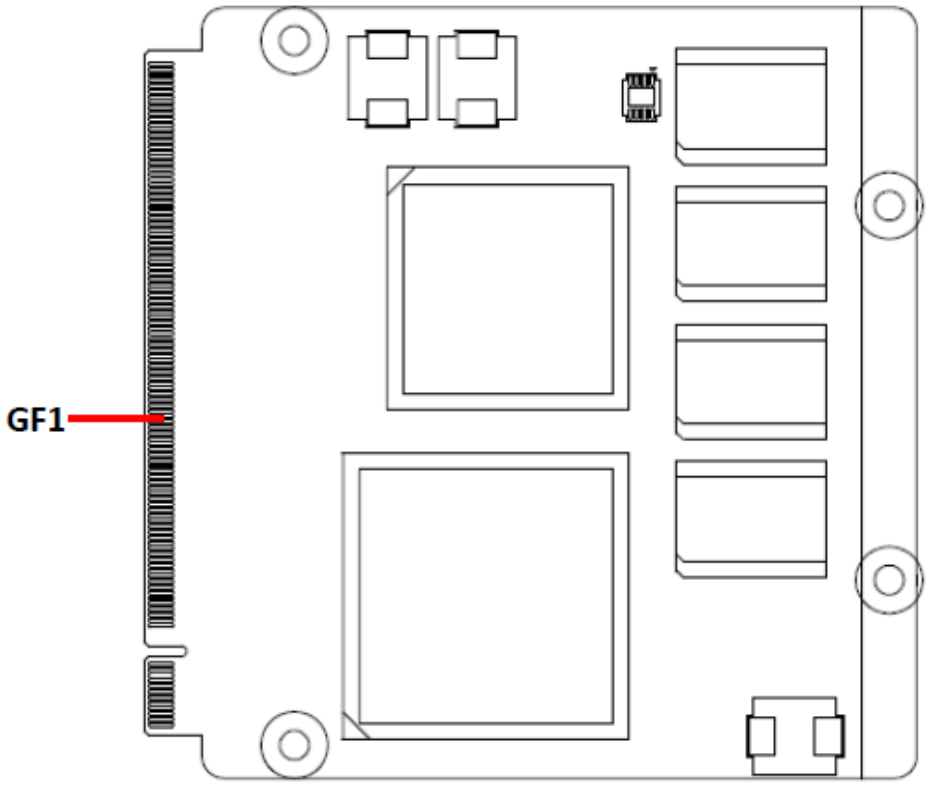
- 1 x EQM-A50M AMD G-Series Qseven Module
- 1 x Quick Installation Guide
- 1 x DVD-ROM contains the followings:
  - User's Manual (In PDF)
  - Ethernet drivers and utilities
  - VGA drivers and utilities
  - Audio drivers and utilities



If any of the above items is damaged or missing, contact your retailer.

2. Hardware Configuration

2.1 Product Overview



2.2 Connector List

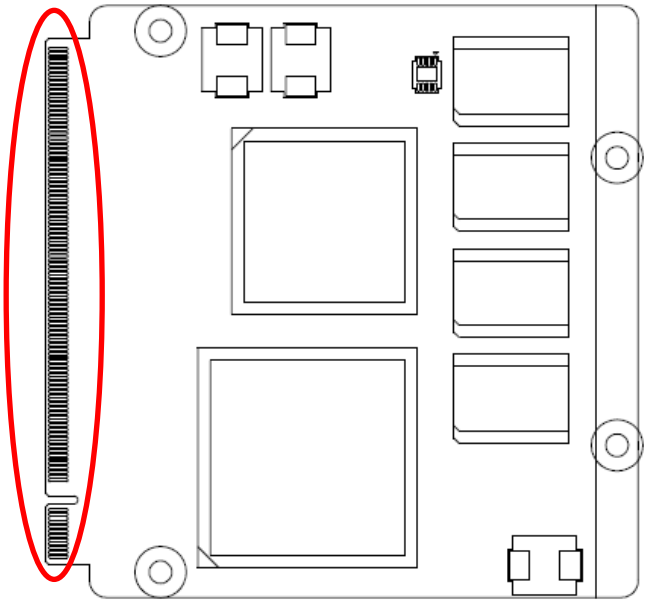
The following tables list the function of each of the board's connectors.

Connectors

Label	Function	Note
GF1	QSeven connector	

2.3 Setting Connectors

2.3.1 QSeven connector (GF1)



***Default**

Signal	PIN	PIN	Signal
GND1	1	2	GND2
GBE_MDI3-	3	4	GBE_MDI2-
GBE_MDI3+	5	6	GBE_MDI2+
GBE_LINK100#	7	8	GBE_LINK1000#
GBE_MDI1-	9	10	GBE_MDI0-
GBE_MDI1+	11	12	GBE_MDI0+
GBE_LINK#	13	14	GBE_ACT#
GBE_CTREF	15	16	SUS_S5#
WAKE#	17	18	SUS_S3#
SUS_STAT#	19	20	PWRBTN#
SLP_BTN#	21	22	LID_BTN#
GND3	23	24	GND4
GND5	25	26	PWGIN
BATLOW#	27	28	RSTBTN#
SATA0_TX+	29	30	SATA1_TX+
SATA0_TX-	31	32	SATA1_TX-
SATA_ACT#	33	34	GND6
SATA0_RX+	35	36	SATA1_RX+
SATA0_RX-	37	38	SATA1_RX-

Signal	PIN	PIN	Signal
GND7	39	40	GND8
BIOS_DISABLE#	41	42	SDIO_CLK#
SDIO_CD#	43	44	SDIO_LED
SDIO_CMD	45	46	SDIO_WP
SDIO_PWR#	47	48	SDIO_DAT1
SDIO_DAT0	49	50	SDIO_DAT3
SDIO_DAT2	51	52	SDIO_DAT5
SDIO_DAT4	53	54	SDIO_DAT7
SDIO_DAT6	55	56	NC
GND9	57	58	GND10
HDA_SYNC	59	60	SMB_CLK
HDA_RST#	61	62	SMB_DAT
HDA_BCLK	63	64	SMB_ALERT#
HDA_SDI	65	66	I2C_CLK
HDA_SDO	67	68	I2C_DAT
THRM#	69	70	WDTRIG#
THRMTRIP#	71	72	WDOUT
GND11	73	74	GND12
USB_P7-	75	76	USB_P6-
USB_P7+	77	78	USB_P6+
USB_6_7_OC#	79	80	USB_4_5_OC#
USB_P5-	81	82	USB_P4-
USB_P5+	83	84	USB_P4+
USB_2_3_OC#	85	86	USB_0_1_OC#
USB_P3-	87	88	USB_P2-
USB_P3+	89	90	USB_P2+
NC	91	92	NC
USB_P1-	93	94	USB_P0-
USB_P1+	95	96	USB_P0+
GND13	97	98	GND14
LVDS_A0+	99	100	LVDS_B0+
LVDS_A0-	101	102	LVDS_B0-
LVDS_A1+	103	104	LVDS_B1+

Signal	PIN	PIN	Signal
LVDS_A1-	105	106	LVDS_B1-
LVDS_A2+	107	108	LVDS_B2+
LVDS_A2-	109	110	LVDS_B2-
LVDS_PPEN	111	112	LVDS_BLEN
LVDS_A3+	113	114	LVDS_B3+
LVDS_A3-	115	116	LVDS_B3-
GND15	117	118	GND16
LVDS_A_CLK+	119	120	LVDS_B_CLK+
LVDS_A_CLK-	121	122	LVDS_B_CLK-
LVDS_BLT_CTRL	123	124	NC
LVDS_DID_DAT	125	126	NC
LVDS_DID_CLK	127	128	NC
NC	129	130	NC
SDVO_BCLK+	131	132	NC
SDVO_BCLK-	133	134	NC
GND17	135	136	GND18
SDVO_GREEN+	137	138	SDVO_FLDSTALL+
SDVO_GREEN-	139	140	SDVO_FLDSTALL-
GND19	141	142	GND20
SDVO_BLUE+	143	144	NC
SDVO_BLUE-	145	146	NC
GND21	147	148	GND22
SDVO_RED+	149	150	SDVO_CTRL_DAT
SDVO_RED+	151	152	SDVO_CTRL_CLK
HDMI_HPD#	153	154	DP_HPD#
PCIE_CLK_REF+	155	156	PCIE_WAKE#
PCIE_CLK_REF-	157	158	PCIE_RST#
GND23	159	160	GND24
PCIE3_TX+	161	162	PCIE3_RX+
PCIE3_TX-	163	164	PCIE3_RX-
GND25	165	166	GND26
PCIE2_TX+	167	168	PCIE2_RX+
PCIE2_TX-	169	170	PCIE2_RX-

Signal	PIN	PIN	Signal
EXCD0_PERST#	171	172	EXCD1_PERST#
PCIE1_TX+	173	174	PCIE1_RX+
PCIE1_TX-	175	176	PCIE1_RX-
EXCD0_CPPE#	177	178	EXCD1_CPPE#
PCIE0_TX+	179	180	PCIE0_RX+
PCIE0_TX-	181	182	PCIE0_RX-
GND27	183	184	GND28
LPC_AD0	185	186	LPC_AD1
LPC_AD2	187	188	LPC_AD3
LPC_CLK	189	190	LPC_FRAME#
SERIRQ	191	192	LPC_LDRQ#
VCC_RTC	193	194	SPKR
FAN_TACHOIN	195	196	FAN_PWMOUT
GND29	197	198	GND30
SPI_MOSI	199	200	SPI_CS0#
SPI_MISO	201	202	SPI_CS1#
SPI_SCK	203	204	NC
VCC_5V_SB1	205	206	VCC_5V_SB2
NC	207	208	NC
NC	209	210	NC
VCC1	211	212	VCC2
VCC3	213	214	VCC4
VCC5	215	216	VCC6
VCC7	217	218	VCC8
VCC9	219	220	VCC10
VCC11	221	222	VCC12
VCC13	223	224	VCC14
VCC15	225	226	VCC16
VCC17	227	228	VCC18
VCC19	229	230	VCC20

