

Qseven to COM Express Adapter

User Manual



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CTIM-00147 Revision 0.00

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Revision History

Revision	Date	Author(s)	Change(s)
0.00	02/15/2012	PD	Initial Manual Revision Created

Customer Support Overview

If you experience difficulties after reading the manual and/or using the product, contact the Connect Tech Inc. reseller from which you purchased the product. In most cases the reseller can help you with product installation and difficulties.

In the event that the reseller is unable to resolve your problem, our highly qualified support staff can assist you. Our support section is available 24 hours a day, 7 days a week on our website at: www.connecttech.com/sub/support/support.asp. See the contact information section below for more information on how to contact us directly. Our technical support is always free.

Contact Information

We offer three ways for you to contact us:

Mail/Courier

You may contact us by letter at: Connect Tech Inc.

Technical Support

42 Arrow Road, Guelph, ON

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Email/Internet

You may contact us through the Internet. Our email and URL addresses on the Internet are: sales@connecttech.com
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www.connecttech.com

Note

Please go to the <u>Download Zone</u> or the <u>Knowledge Database</u> in the <u>Support Center</u> on the Connect Tech Inc. website for product manuals, installation guides, device driver software and technical tips. Submit your technical support questions to our customer support engineers via the <u>Support Center</u> on the Connect Tech Inc. website.

Telephone/Facsimile

Technical Support representatives are ready to answer your call Monday through Friday, from 8:30 a.m. to 5:00 p.m. Eastern Standard Time. Our numbers for calls are:

Telephone: 800-426-8979 (North America only)

Telephone: 519-836-1291 (Live assistance available 8:30 a.m. to 5:00 p.m. EST, Monday to

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Facsimile: 519-836-4878 (online 24 hours)

Introduction

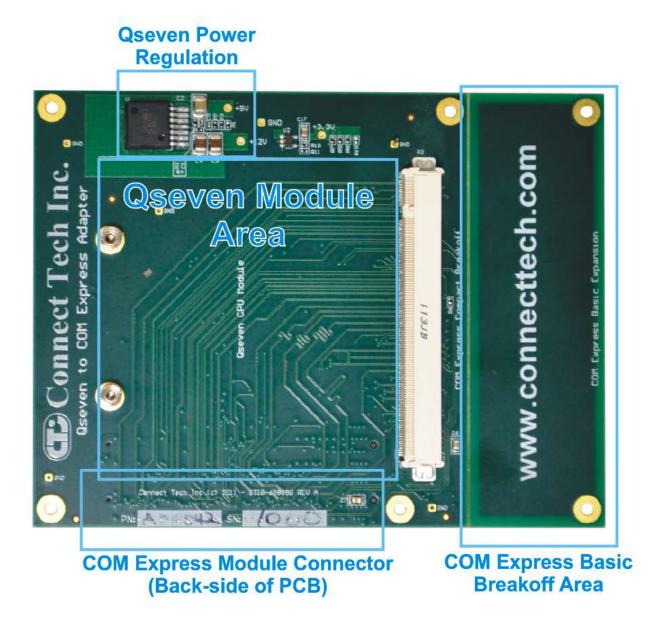
Connect Tech's Qseven to COM Express® Adapter allows users to install a Qseven module into any COM Express® Carrier Board. The Qseven to COM Express® Adapter is transparent to the system, and allows the Qseven module to be added to the COM Express® system without additional setup or software. Users can easily evaluate and integrate the latest generation of low powered Qseven CPU modules in a custom COM Express® carrier.

The Qseven to COM Express® Adapter can be used for evaluation or field deployment, and allows users systems to transition to Qseven without any respin of their COM Express® Carrier.

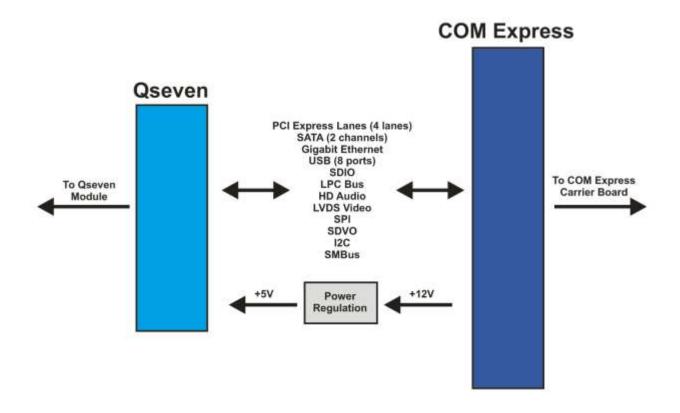
Product Features

Specification	Details	
Interfaces	 PCI Express Lanes (4 lanes) SATA (2 channels) GBE USB (8 ports) SDIO LPC Bus HD Audio LVDS Video SPI SDVO I2C SMBus 	
COM Express Types Supported	Compatible with all COM Express® Types (Only Qseven Signals Connected): Type 2, Type 6, Type 1, Type 10, Type 3, Type 4, Type 5	
Connectors	COM Express: • Single (220 pin) or Double Row (440 pin) • COM Express Module Connectors Qseven: • 230 pin MXM connector	
Physical Dimensions	Basic and Compact COM Express® form factors • Compact: 95 x 95 mm (via breakoff PCB section) • Basic: 95 x 125 mm	
Operation	Install CTI Adapter on COM Express Carrier Install Qseven module into Adapter Power ON Carrier Board	
Power	+12V (All Qseven voltages created from main COM Express +12V)	
Temperature	Industrial Operating Temperature Range: -40°C to 85°C (-40°F to 185°F)	
Warranty and Support	Lifetime warranty and free technical support	

Board Diagram



Block Diagram



Hardware Installation Information

Please follow these steps with installing the Qseven to COM Express Adapter into your system.

- 1) Ensure your COM Express Carrier is powered OFF
- 2) Install the *Qseven to COM Express Adapter*
- 3) Install your Qseven module in the *Qseven to COM Express Adapter*
- 4) Power ON your COM Express Carrier

Qseven to COM Express Pin Interconnect

The interconnect shown below is a listing of the signal interconnection between Qseven and COM Express. All of the available Qseven signals are routed directly to the COM Express, it is important to note that Qseven has less interconnect that COM Express so a number of features in COM Express will not be available, only those that are available in the Qseven standard are available.

A84 125 IVDS J2C DAT A84 125 IVDS J2C CK B83 127 IVDS DKT CK B83 123 IVDS BKT CT B77 111 IVDS BKT EN B82 122 IVDS B CK B81 120 IVDS B CK B81 120 IVDS B CK B81 110 IVDS B3- B77 114 IVDS B3- B78 116 IVDS B3- B77 114 IVDS B3- B78 116 IVDS B3- B77 114 IVDS B3- B78 116 IVDS B3- B77 114 IVDS B3- B77 114 IVDS B3- B78 110 IVDS B2- B78 110 IVDS B2- B79 110 IVDS B1- IVDS B1	COM Express Pin	Qseven Pin	Signal Name
B83			
B79	A83	127	LVDS_I2C_CK
## A77			
B82			
B81			
B78			
877			
B76			_
B75			
B73			
B72	B74	106	LVDS_B1-
B71	B73	104	LVDS_B1+
A82 121 LVDS A CK- A81 119 LVDS A CK- A79 115 LVDS A2- A78 113 LVDS A3- A76 109 LVDS A2- A75 107 LVDS A2- A75 107 LVDS A2- A74 105 LVDS A1- A73 103 LVDS A1- A73 103 LVDS A1- A74 105 LVDS A1- A77 109 LVDS A1- A77 109 LVDS A0- A78 B33 66 L2C DAT B34 68 L2C DAT B35 66 L3C CK B34 62 SMB LATT B35 AMB LAETT B36 FAN PWMOUT C77 195 FAN TACHOIN B37 200 SPI CSF A94 203 SPI CLK A95 109 SPI MOSI A94 203 SPI CLK A95 109 SPI MOSI A94 203 SPI CLK A95 109 SPI MOSI A33 67 AC SDINO A33 67 AC SDINO A33 67 AC SDINO A34 49 GPI0 A54 49 GPI0 A54 49 GPI0 A55 GPO1 A54 49 GPI0 A65 AC SDINO A55 GPO2 B57 AG SPI CW B57 AG SPI CW B57 AG SPI CW B57 AG SSINO A30 61 AC STIT AFT MARTELP B57 AG SSINO A54 APP GPI0 B57 AG SSINO B57 AG SSINO B57 AG SSINO B58 AG SSINO B58 AG SSINO B59 AG SYNC A54 APP GPI0 B57 AG SSINO B57 AG SSINO B58 AG SSINO B58 AG SSINO B58 AG SSINO B59 AG SYNC A54 APP GPI0 B57 AG SSINO B58 AG SSINO B58 B59 B59 AG SYNC B57 AG SSINO B58 B59 B59 AG SYNC B57 AG SSINO B58 B59			
A81 119 LVDS A CK+ A79 1115 LVDS A3- A78 113 LVDS A3- A76 109 LVDS A2- A75 107 LVDS A2- A77 107 LVDS A2- A74 105 LVDS A1- A77 109 LVDS A1- A77 101 LVDS A1- A77 101 LVDS A1- A77 101 LVDS A0- A77 109 LVDS A0- B27 72 WOT B33 66 12C CK B34 68 I2C DAT B33 60 SMB CK B34 68 I2C DAT B35 60 SMB CK B34 68 SI2C DAT B35 60 SMB CK B36 ALERT# B37 A34 A1 BIOS DISABLE B35 69 THRM# A35 71 THRM# C67 196 FAN PWMOUT C77 195 FAN TACHOIN B97 200 SPL CSF A95 199 SPL MOSI A94 203 SPL CK B30 65 AC SDINO A33 67 AC SDOUT A32 63 AC BITCK A33 GPD A34 A9 QOD SPL CK A95 APP AND AC STREET A95 APP AND AC STREET A96 AC SDOUT A32 63 AC BITCK A97 GPD A98 APP AC STREET A98 APP AC STREET A99 SPL MISO B30 65 AC SDINO A31 AC BITCK A29 SP AC STREET A32 APP AC STREET A33 APP AC STREET A34 APP AC STREET A35 APP AC STREET A36 APP AC STREET A37 AC SDOUT A32 APP AC STREET A85 SP AC STREET A86 AC STREET A87 AC STREET A87 AC STREET A88 SP STREET A88 SP STREET# B110 SP STREET B110 SP STREET B111 SP STREET B112 CP ADD LPC FRAME#			
A79			
A78			
A76 109 LVDS_A2- A75 107 LVDS_A2- A74 105 LVDS_A1- A74 105 LVDS_A1- A73 103 LVDS_A1- A72 101 LVDS_A0- A71 99 LVDS_A0- B27 72 WDT B33 66 I2C_CK B34 68 I2C_DAT B13 60 SMB_CK B14 62 SMB_DAT B15 64 SMB_ALERT# B32 194 SPKR B33 69 THRM# B35 69 THRM# A35 71 THRMTRIP# C67 196 FAN_PWMOUT C77 195 FAN_TACHOIN B97 200 SPL_CS# B97 200 SPL_CS# A95 199 SPL_MOSI A94 203 SPL_CK B30 65 AC_SDIND A33 67 AC_SDOUT A32 63 AC_STITCK A34 49 GPI0 A35 FOR AC_STWC A36 49 GPI0 A37 AC_STWC A38 GPI1 A48 GPI1 A67 51 GPI2 A88 GPI1 A67 51 GPI2 A88 GPO0 B57 AC_STWC B67 17 WAKEI# A54 49 GPI0 A67 51 GPI2 A68 GPO0 B57 AC_STWC B67 17 WAKEI# A68 GPO1 B67 17 WAKEI# A69 AC_STWC B69 AC_STWC B60 AC_STWC B60 AC_STWC B61 AC_STWC B61 AC_STWC B61 AC_STWC B62 AC_STWC B63 AC_STWC B63 AC_STWC B64 AC_STWC B65 AC_STWC B66 AC_STWC B67 AC_STWC B68 AC_STWC B69 AC_ST			
A75 107 LVDS_A2+ A74 105 LVDS_A1- A73 103 LVDS_A1- A72 101 LVDS_A0- A71 99 LVDS_A0- B27 72 WDT B33 66 12C_CK B34 68 12C_DAT B13 60 SMB_CK B14 62 SMB_DAT B15 64 SMB_LERT# B32 194 SPKR A34 41 BIOS_DISABLE B35 69 THRM# A35 71 THRMTRIP# C67 196 FAN_PWMOUT C77 195 FAN_TACHOIN B97 200 SPI_CS# A95 199 SPI_MOSI B97 200 SPI_CK A94 203 SPI_CLK A92 201 SPI_MISO B30 65 AC_SDINO A33 67 AC_SDOUT A33 67 AC_SDOUT A34 49 GPID A63 48 GPI1 A65 GPO A63 48 GPI1 A66 GPO B67 17 WAKEI# A66 GPO B7 B7 B7 B87 AP3 B87 AP3			
A74 105 LVDS_A1- A73 103 LVDS_A1+ A72 101 LVDS_A0- A71 99 LVDS_A0+ B27 72 WDT B33 66 12C_CK B34 68 12C_DAT B13 60 SMB_CK B14 62 SMB_DAT B15 64 SMB_ALERT# B32 194 SPKR B35 69 THRM# A34 41 BIOS_DISABLE B35 69 THRM# C67 196 FAN_PWMOUT C77 195 FAN_TACHOIN B97 200 SPI_CS# A94 203 SPI_CK A92 201 SPI_MISO A94 203 SPI_CK A94 203 SPI_CK A92 201 SPI_MISO A33 67 AC_SDOUT A32 63 AC_BITCLK A29 59 AC_SYNC A30 AB AERT# A85 50 GPI3 A85 69 GPI3 A96 GPO0 AC_STR A76 AC_SDOUT A77 AC_STR A78 AC_STR A79 AC_STR A			
A73 A72 A71 A72 A71 A71 A71 B99 LVDS_A0+ B27 A72 B33 B66 IZC_CK B34 B34 B68 IZC_DAT B13 B13 B00 SMB_CK B14 B15 B4 B62 SMB_DAT B15 B32 B194 SPKR B35 B35 B36 B37 B37 B38 B37 B38 B38 B38 B38 B38 B39			
## A71			
B27 72 WDT	A72	101	LVDS_A0-
B33 66 I2C_CK B34 68 I2C_DAT B13 60 SMB_CK B14 62 SMB_DAT B15 64 SMB_ALERT# B32 194 SPKR B34 41 BIOS_DISABLE B35 69 THRM# A34 41 BIOS_DISABLE B35 69 THRM# A35 71 THRMTRIP# C67 196 FAN_PWMOUT C77 195 FAN_TACHOIN B97 200 SPI_CS# A95 199 SPI_MOSI A94 203 SPI_CK A92 201 SPI_MISO B30 65 AC_SDOUT A33 67 AC_SDOUT A32 63 AC_BITCLK A29 59 AC_SYNC A30 61 AC_SYNC A30 61 AC_SYNC A49 GPIO			_
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B15			
B32			
A34 41 BIOS_DISABLE B35 69 THRM# A35 71 THRMTRIP# C67 196 FAN_PWMOUT C77 195 FAN_TACHOIN B97 200 SPI_CS# A95 199 SPI_MOSI A94 203 SPI_CLK A92 201 SPI_MISO B30 65 AC_SDINO A33 67 AC_SDUUT A32 63 AC_BITCLK A29 59 AC_SYNC A30 61 AC_RST# A54 49 GPI0 A67 51 GPI2 A67 51 GPI2 A85 50 GPI3 A93 42 GPO0 B57 46 GPO2 B63 43 GPO3 B54 45 GPO1 B57 46 GPO2 B66 17 WAKEL# B67 17 WAKEL# B67 17 WAKEL# B18 19 SUS_STAT# B18 19 SUS_STAT# B19 B18 19 LPC_CDRO# B8 B19 LPC_CDRO# B8 B1 B1 B1 B1 LPC_AD3 B8 B1 B1 B1 B1 LPC_AD3 B6 B1 B1 B1 B1 LPC_AD3 B6 B1 B1 B1 B1 B1 B1 LPC_AD3 B6 B1			_
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A33 67 AC_SDOUT A32 63 AC_BITCLK A29 59 AC_SYNC A30 61 AC_RST# A54 49 GPI0 A63 48 GPI1 A67 51 GPI2 A85 50 GPI3 A93 42 GP00 B54 45 GP01 B57 46 GP02 B63 43 GP03 A27 27 BATLOW# B67 17 WAKE1# A24 16 SUS_S5# A15 18 SUS_S3# B18 19 SUS_STAT# B24 26 PWR_OK B49 28 SYS_RESET# B10 189 LPC_CLK B8 192 LPC_DRQO# B7 APS			
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A63 48 GPI1 A67 51 GPI2 A85 50 GPI3 A93 42 GP00 B54 45 GP01 B57 46 GP02 B63 43 GP03 A27 27 BATLOW# B67 17 WAKE1# A24 16 SUS_S5# A15 18 SUS_S3# B18 19 SUS_STAT# B24 26 PWR_OK B49 28 SYS_RESET# B12 20 PWRBTN# B10 189 LPC_CLK B8 199 LPC_CLK B8 199 LPC_CDRO# B8 192 LPC_DRO# B7 188 LPC_AD3 B6 187 LPC_AD1 B6 186 LPC_AD1 B8 196 LPC_AD1 B8 196 LPC_AD1 B8 196 LPC_AD1 B8 197 LPC_CDO	A30	61	AC_RST#
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A85 50 GPI3 A93 42 GPO0 B54 45 GPO1 B57 46 GPO2 B63 43 GPO3 A27 27 BATLOW# B67 17 WAKE1# A24 16 SUS_S5# A15 18 SUS_S3# B18 19 SUS_STAT# B24 26 PWR_OK B49 28 SYS_RESET# B12 20 PWRBTN# B10 189 LPC_CLK B8 199 LPC_AD3 B8 197 188 LPC_AD3 B6 187 LPC_AD1 B6 186 LPC_AD1 B6 187 LPC_AD1 B6 188 LPC_AD1 B6 188 LPC_AD1 B6 186 LPC_AD1 B6 187 LPC_AD1 B6 188 LPC_AD1 B6 188 LPC_AD1 B6 188 LPC_AD1 B6 186 LPC_AD1 B7 AB8 LPC_AD1 B8 190 LPC_FRAME#			
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B54 45 GPO1 B57 46 GPO2 B63 43 GPO3 A27 27 BATLOW# B67 17 WAKE1# A24 16 SUS_S5# A15 18 SUS_S3# B18 19 SUS_STAT# B24 26 PWR_OK B49 28 SYS_RESET# B12 20 PWRBTN# B10 189 LPC_CLK B8 192 LPC_DRQ0# B7 188 LPC_AD3 B6 187 LPC_AD2 B5 186 LPC_AD1 B4 185 LPC_AD0 B3 190 LPC_FRAME#			
B57			
B63 43 GPO3 A27 27 BATLOW# B67 17 WAKE1# A24 16 SUS_55# A15 18 SUS_53# B18 19 SUS_5TAT# B24 26 PWR_OK B49 28 SYS_RESET# B12 20 PWRBTN# B10 189 LPC_CLK B8 192 LPC_DRQO# B7 188 LPC_AD3 B6 187 LPC_AD2 B5 186 LPC_AD1 B4 185 LPC_AD0 B3 190 LPC_FRAME#			
A27 27 BATLOW# B67 17 WAKE1# A24 16 SUS_SS# A15 18 SUS_S3# B18 19 SUS_STAT# B24 26 PWR_OK B49 28 SYS_RESET# B12 20 PWRBTN# B10 189 LPC_CLK B8 192 LPC_DRQO# B7 188 LPC_AD3 B6 187 LPC_AD3 B6 187 LPC_AD2 B5 186 LPC_AD1 B4 185 LPC_AD0 B4 185 LPC_AD0 B5 190 LPC_FRAME#			
B67			
A24 16 SUS_SS# A15 18 SUS_S3# B18 19 SUS_STAT# B24 26 PWR_OK B49 28 SYS_RESET# B12 20 PWRBTN# B10 189 LPC_CLK B8 192 LPC_DRQO# B7 188 LPC_AD3 B6 187 LPC_AD2 B5 186 LPC_AD1 B4 185 LPC_AD1 B4 185 LPC_AD0 B3 190 LPC_FRAME#			
B18 19 SUS_STAT# B24 26 PWR_OK B49 28 SYS_RESET# B12 20 PWRBTN# B10 189 LPC_CLK B8 192 LPC_DRQO# B7 188 LPC_AD3 B6 187 LPC_AD2 B5 186 LPC_AD1 B4 185 LPC_AD0 B3 190 LPC_FRAME#	A24	16	SUS_S5#
B24 26 PWR_OK B49 28 SYS_REST# B12 20 PWRBTN# B10 189 LPC_CLK B8 192 LPC_DRQO# B7 188 LPC_AD3 B6 187 LPC_AD2 B5 186 LPC_AD1 B4 185 LPC_AD0 B3 190 LPC_FRAME#			
B49 28 SYS_RESET# B12 20 PWRBTN# B10 189 LPC_CLK B8 192 LPC_DRQ0# B7 188 LPC_AD3 B6 187 LPC_AD2 B5 186 LPC_AD1 B4 185 LPC_AD0 B3 190 LPC_FRAME#			
B12 20 PWRBTN# B10 189 LPC_CLK B8 192 LPC_DRQO# B7 188 LPC_AD3 B6 187 LPC_AD2 B5 186 LPC_AD1 B4 185 LPC_AD0 B3 190 LPC_FRAME#			_
B10 189 LPC_CLK B8 192 LPC_DRQ0# B7 188 LPC_AD3 B6 187 LPC_AD2 B5 186 LPC_AD1 B4 185 LPC_AD0 B3 190 LPC_FRAME#			
B8 192 LPC_DRQO# B7 188 LPC_AD3 B6 187 LPC_AD2 B5 186 LPC_AD1 B4 185 LPC_AD0 B3 190 LPC_FRAME#			
B7 188 LPC_AD3 B6 187 LPC_AD2 B5 186 LPC_AD1 B4 185 LPC_AD0 B3 190 LPC_FRAME#			
B6 187 LPC_AD2 B5 186 LPC_AD1 B4 185 LPC_AD0 B3 190 LPC_FRAME#			
B5 186 LPC_AD1 B4 185 LPC_AD0 B3 190 LPC_FRAME#			
B4 185 LPC_ADO B3 190 LPC_FRAME#			
B3 190 LPC_FRAME#			
	В3	190	LPC_FRAME#
	A50	191	

Pin / Interconnect Continued

COM Express Pin	Qseven Pin	Signal Name
C73	150	SDVO_I2C_DAT
D73	152	SVDO_I2C_CLK
D62	133	PEG_TX3-
D61	131	PEG_TX3+
C59	140	PEG_RX2-
C58	138	PEG_RX2+
D59	145	PEG_TX2-
D58	143	PEG_TX2+
C56	134	PEG_RX1-
C55	132	PEG_RX1+
D56	139	PEG_TX1-
D55	137	PEG_TX1+
C53	146	PEG_RX0-
C52	144	PEG_RX0+
D53	151	PEG_TX0-
D52	149	PEG_TX0+
A38	79	USB_6_7_OC#
B38	80	USB_4_5_OC#
A44	85	USB_2_3_OC#
B44	86	USB_0_1_OC#
B36	75	USB7-
B37	77	USB7+
A36	76	USB6-
A37	78	USB6+
B39	81	USB5-
B40	83	USB5+
A39	82	USB4-
A40	84	USB4+
B42	87	USB3-
B43	89	USB3+
A42	88	USB2-
A43	90	USB2+
B45	93	USB1-
B46	95	USB1+
A45	94	USB0-
A46	96	USB0+
A28	33	SATA_ACT#
B17	32	SATA1_TX-
B16	30	SATA1_TX+
B20	38	SATA1_RX-
B19	36	SATA1_RX+
A17	31	SATA0_TX-
A16	29	SATA0_TX+
A20	37	SATAO_RX-
A19	35	SATA0_RX+
B2	14	GBE0_ACT#
A5	8	GBE0_LINK100
A4	7	GBE0_LINK100
A8	13	GBE0_LINK#
A14	15	GBEO_CTREF
A2	3	GBE0_MDI3-
A3	5	GBE0_MDI3+
A6	4	GBE0_MDI2-
A7	6	GBE0_MDI2+
A9	9	GBE0_MDI1-
A10	11	GBE0_MDI1+
A12	10	GBE0_MDI0-
A13	12	GBE0_MDI0+
B66	156	WAKEO#
B50	158	CB_RESET#
B47	172	EXCD1_PERST#
A48	171	EXCD0_PERST#
B48	178	EXCD1_CPPE#
A49	177	EXCDO_CPPE#
A88	155	PCIE_CK_REF+
A89	157	PCIE_CK_REF-
B58	162	PCIE_RX3+
B59	164	PCIE_RX3-
A58	161	PCIE_TX3+
A59	163	PCIE_TX3-
B61	168	PCIE_RX2+
B62	170	PCIE_RX2-
A61	167	PCIE_TX2+
A62	169	PCIE_TX2-
B64	174	PCIE RX1+
B65	176	PCIE_RX1-
A64	173	PCIE_TX1+
A65	175	PCIE_TX1-
B68	180	PCIE RXO+
B69	182	PCIE_RXO-
A68	179	PCIE_TX0+
A69	181	PCIE_TX0-
. 105	1 201	. G.E_1/10