

Product Name: ZX102QTH Samtec Breakout Adapter

Product Description: 60pins per row x 2 rows -- > 120 pins Samtec breakout adapter designed for low profile test and measurement applications; servers or networking system – Onboard QTH-060 Samtec connector, mating with QSH-060 connector series.

- 1- Each QTH-060 connector’s signal is routed to onboard header.
- 2- Listed number adjacent to each header pin represents the associated Samtec QTH pin number.
- 3- All traces are 50 Ohms impedance controlled.
- 4- Four layers PCB design, inner layers are GND planes.
- 5- One accessible GND test point, The test point is connected to module’s GND planes and direct interface to the connector GND blade.
- 6- Exposed copper area are provided for GND probe soldering, if required.
- 7- Offering Low profile design, targeting in-system rackmount or low profile design test & measurement applications.
- 8- Ease of interface with single channel and differential scope probes.
- 9- Fully compatible with Single Ended , -D, and Differential Pair, -DP, Samtec connector QSH QTH series as well as cable assemblies; HQCD , HQDP
- 10- Mates with any height and form factor QSH-060 connector series such as -D -DP, -RA, -EM configurations.
- 11- Flying lead wire assembly may be used for board to board interface – See ordering information, see ZX100ACC-SS

Electrical: Insertion loss > -2dB @3GHz  
Trace impedance: 50 Ω  
Operating Temperature: -55 °C to +125 °C  
Samtec Connector:  
Onboard Connector: QTH-060-xx 2rows x 30 pins/row  
Mates with: Any QSH-060-xx formfactor  
Pitch: 0.0197" ( 0.50mm ) pin to pin pitch  
Plating: Gold Flash  
Header:  
Pitch: 0.1" ( 2.54mm ) pin to pin pitch  
Pin: Square 0.025" ( 0.635mm )  
Height: 0.24" ( 6mm )  
Plating: Gold Flash

Application: Bringup, testing, emulation, development, modular design evaluations

Mates with : Samtec QSH060 QSH020(DP) - Also mates with ANY one bank of QSH060, QSH090, QSH120 : QSH020(DP) QSH040(DP) QSH060(DP) QSH080(DP) HFHM2 HQCD, HQDP  
Compatible with – differential Pair (DP), unused signal can be left unconnected or Grounded for improved noise immunity.

Signal assignments: Table below exhibits the assigned Samtec pin numbers associated with the headers for top and bottom sides of the module.

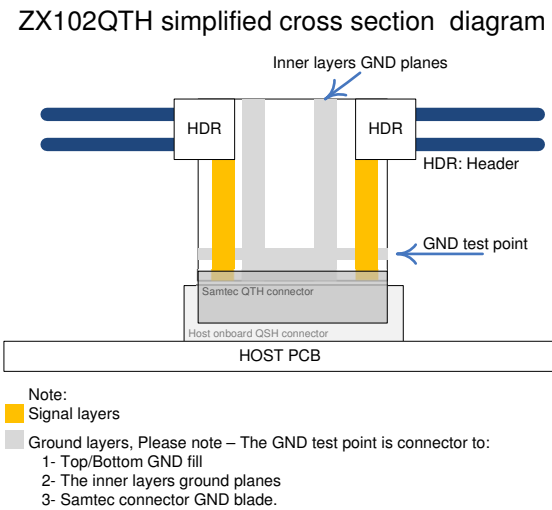
ZX102-QTH060 pin assignments J1: QTH060															
Bottom	Headers	J4	2	10	18	26	34	42	50	58	66	74	82	90	98
			4	12	20	28	36	44	52	60	68	76	84	92	100
		J5	6	14	22	30	38	46	54	62	70	78	86	94	102
Top	Headers	J2	5	13	21	29	37	45	53	61	69	77	85	93	101
			7	15	23	31	39	47	55	63	71	79	87	95	103
		J3	1	9	17	25	33	41	49	57	65	73	81	89	97

Header pin numbers refer to the SAMTEC QTH connector pin number

Notice

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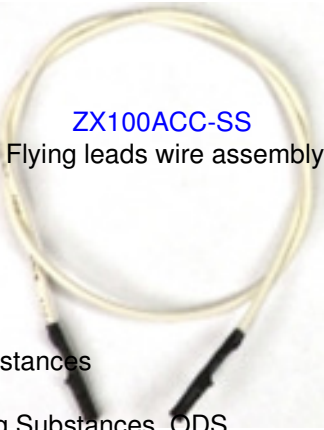
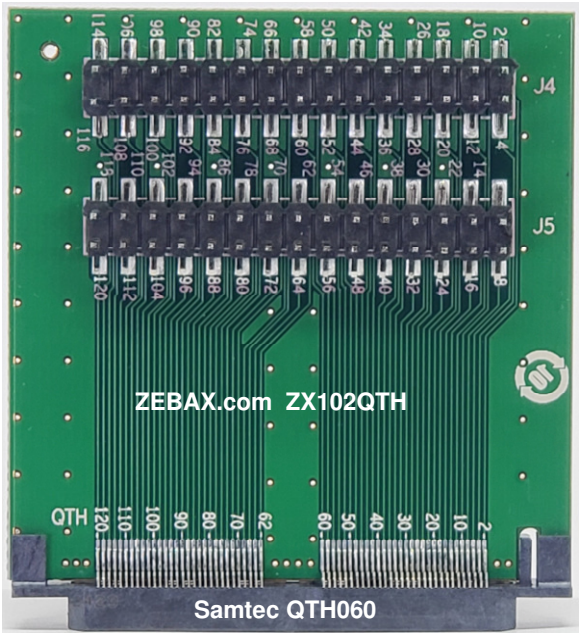
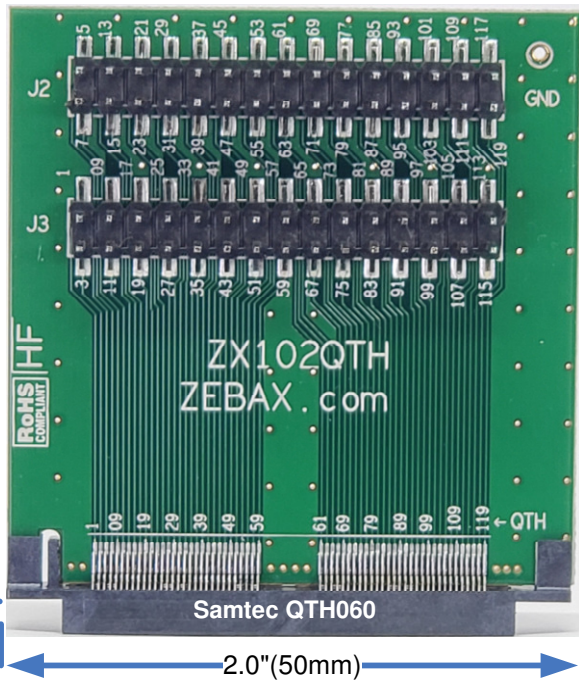
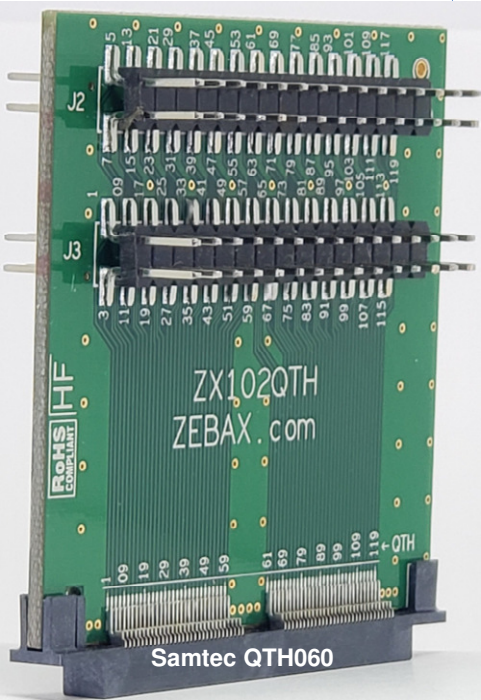
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Compliance:

ISO2001 certified  
RoHs - Lead Free  
EU RoHS2  
UL E111594 document  
ELV- Vehicle Directive ( Directive 2000/EC)  
European Union Directive ( 203/11/EC )  
Halogen Free per IEC-61249-2.21 : 2003  
RoHs Directive 2011/65/EU  
WEEE Directive ( 2012/12/EU)

Certificate of Compliance for Radioactive substances  
Certificate of Compliance for Asbestos  
Certificate of Compliance for Ozone Depleting Substances, ODS  
Certificate REACH SVHC  
Certificate of Compliance RoHS\_EN\_CoC



ZX102QTH package includes:

Part number	Quantity	Description
ZX102QTH	1	Samtec Breakout Adapter module
ZX100ACC-SS	0	Flying leads wire assembly

ZX100ACC-SS site page for ordering the flying leads wire assembly

Note

ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated.

**ZEBAX TECHNOLOGIES**  
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SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT		ASSEMBLY DRAWING
		ITEM: ZX102QTH
DESCRIPTION: Samtec QTH breakout adapter		
CHECKED: M. MARINA	DRAWN: MATTHEEW	REVISION: 1.0
		SHEET: 1 OF 1