

Product Name: ZX100QTH-RK Samtec Breakout Adapter – in-system rackmount – low profile

Product Description: 30pins per row x 2 rows -- > 60 pins Samtec breakout adapter designed for rackmount or low profile test and measurement applications; servers or networking hardware in any standard rackmount – Onboard QTH-030 Samtec connector, mating with QSH-030 connector series.

- 1- Each QTH-030 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- Offering Low profile design, targeting in-system rackmount or low profile design test & measurement applications.
- 7- Ease of interface with single channel and differential scope probes.
- 8- Fully compatible with Single Ended , -D, and Differential Pair, -DP, Samtec connector QSH QTH series as well as cable assemblies; HQCD , HQDP
- 9- Mates with any height and form factor QSH-030 connector series such as -D -DP, -RA, -EM configurations.
- 10- 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-030-xx 2rows x 30 pins/row
Mates with: Any QSH-030-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 QSH030 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. Due to the module size, there are no listed reference designators on this module. The side with “Zebax.com” and Module name , ZX100QTH-RK” is the top side.

ZX100QTH-RK Header pin configuration										
Bottom	Headers		6	12	18	24	30	36	42	48
			2	8	14	20	26	32	38	44
			4	10	16	22	28	34	40	46
Top	Headers		5	11	17	23	29	35	41	47
			1	7	13	19	25	31	37	43
			3	9	15	21	27	33	39	45

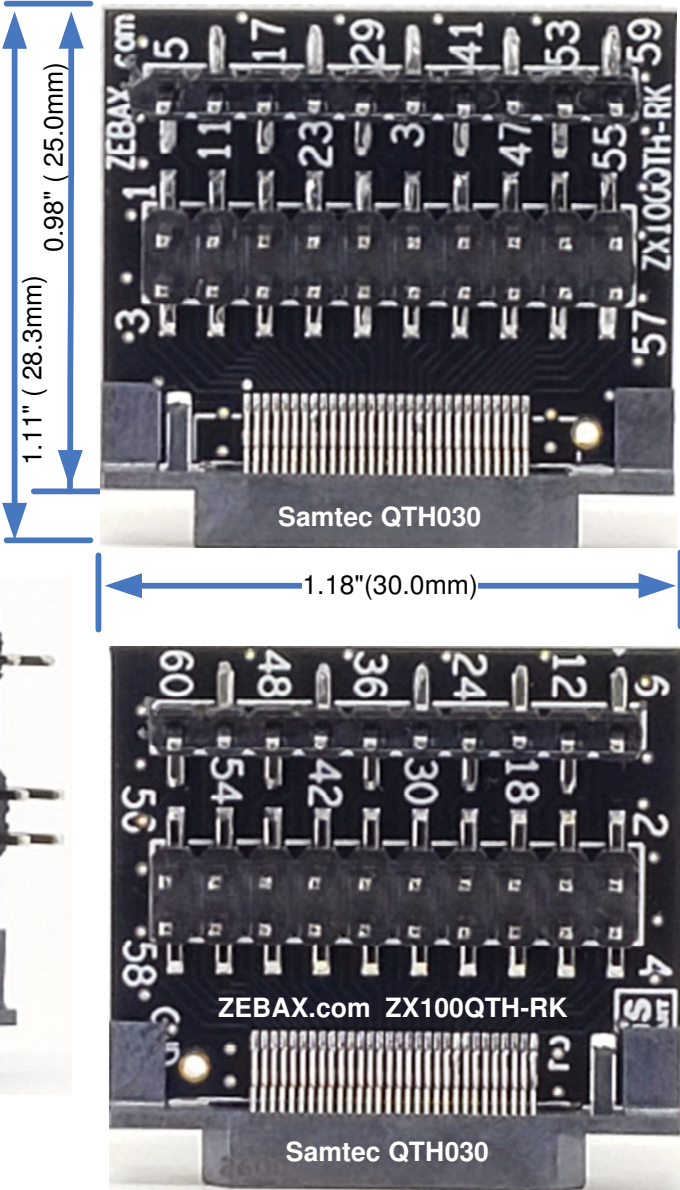
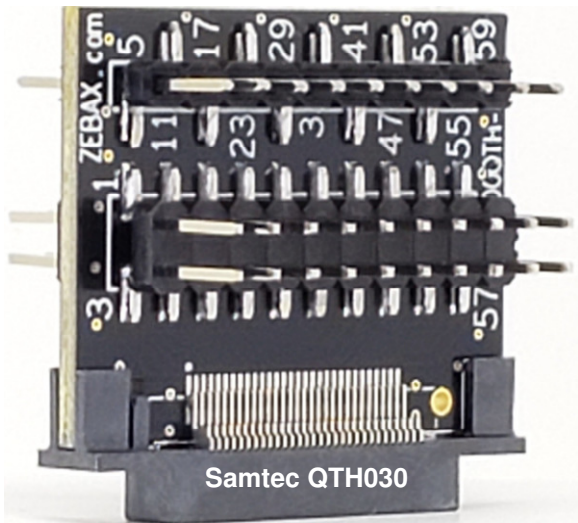
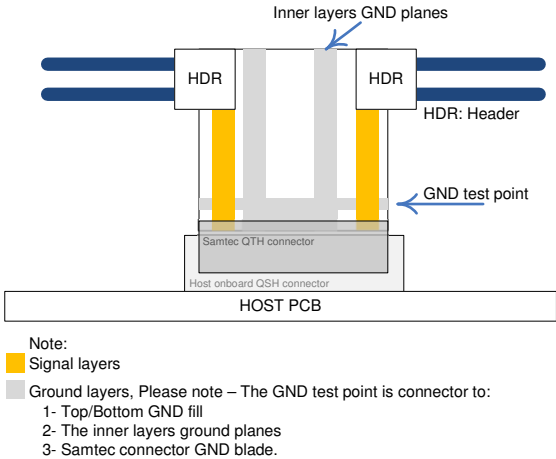
Header pin numbers refer to the SAMTEC QTH connector pin number

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ZX100QTH-RK simplified cross section diagram



ZX100QTH-RK package includes:

Part number	Quantity	Description
ZX100QTH-RK	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.

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SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT	ASSEMBLY DRAWING
	ITEM: ZX100QTH-RK

DESCRIPTION: In-system rackmount / low profile
Samtec breakout adapter QTH-RK

CHECKED: M. MARINA	DRAWN: MATTHEW	REVISION: 1.0 SHEET: 1 OF 1
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