

Product Name: ZX127HSEC6-42V Samtec GENERATE HSEC6 / Mini Cool Edge IO , MCIO, breakout adapter– Page 1 OF 2

Product Description: ZX127HSEC6-42V is Samtec HSEC6 0.6mm pitch also referred as Mini Cool Edge IO , MCIO / SFF-TA-1002 , breakout adapter. ZX127HSEC6-42V is designed for test & measurements of Add-In-Card, AIC, in real-time electrical test & measurements, signal integrity , characterization, manufacturing loopback test applications.

ZX127HSEC6-42V is breakout adapter, supporting Samtec GENERATE HSEC6 / MCIO edge card 0.6mm pitch connectors using 1.6mm PCB thickness. It provides full access to all HSEC6 / MCIO connector's signals via onboard headers for purpose of test & measurement of AIC.

- 1- Provides access to all Samtec HSEC6 / MCIO signals via onboard headers.
- 2- The headers are standard 0.1" (2.54mm) pitch.
- 3- Listed number adjacent to each header's pin is in reference to the Samtec HSEC6 / MCIO connector's pin.
- 4- All traces are impedance controlled.
- 5- Four, 4, layers PCB design, inner layers are GND planes.
- 6- Accessible GND test point, The test point is connected to inner GND planes.
- 7- Ease of interface with single channel and differential scope probes.
- 8- Facilitates Add in Card, AIC, testing & development.
- 9- Flying lead wire assembly or similar is recommended – See ordering information

Electrical: Insertion loss > -2dB @6GHz
Trace impedance: 50 Ω
Operating Temperature: -55°C to +125°C
Connector: Samtec HSEC6 / MCIO 0.60mm pitch
Mates with: Add in Card, edge card test board
Pitch: 0.60mm pin to pin pitch
Thickness: 1.6mm (0.062")
Plating: 10μ" (0.25μm)
Header:
Pitch: 0.1" (2.54mm) pin to pin pitch
Pin: Square 0.025" (0.635mm)
Height: 0.24" (6mm)
Plating: Gold Flash

Application: Manufacturing test measurement & re-use, design, testing , debugging loopback test, characterization , pre-bringup , bringup , interface

Mates with : Samtec GENERATE High Speed Edge Card Add in card HSEC6 & GC6 cable assembly
Industry standard Mini Cool Edge IO , MCIO , SFF-TA-1016, SFF-TA_1002, GEN-Z 1C
Amphenol G97, GH01 series. ACES Electronics, LOTES
MET005610101011 ME1005610203071 ME1005610201091 ME1005611201041
ME1005611202041 ME1005610211081 ME1005610205081 ME1005613401101
ME1005634478101

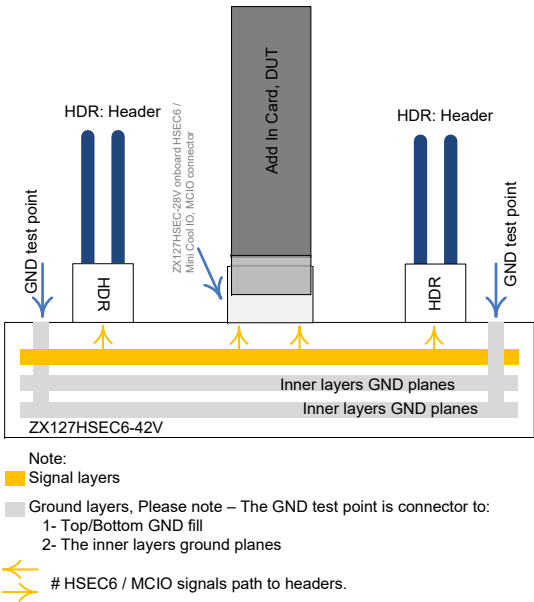
Industry Standard : HSEC6 & MCIO connectors have been adopted by industry standards such as:
SFF-TA_1002, SFF-TA-1016, PCI Express Gen 3.0, 4.0, 5.0, 6.0, OCP DC-MHS (HSIO recommended)
Supporting Up to 64 Gbps PAM4 performance. PCIe , NVMe , SAS ,SFP(+) ,SFP 28

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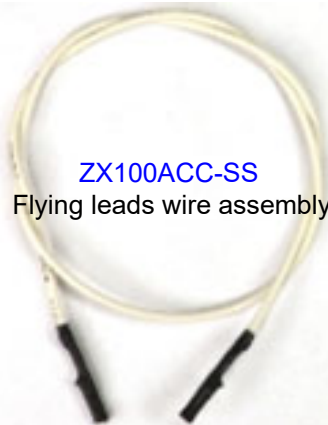
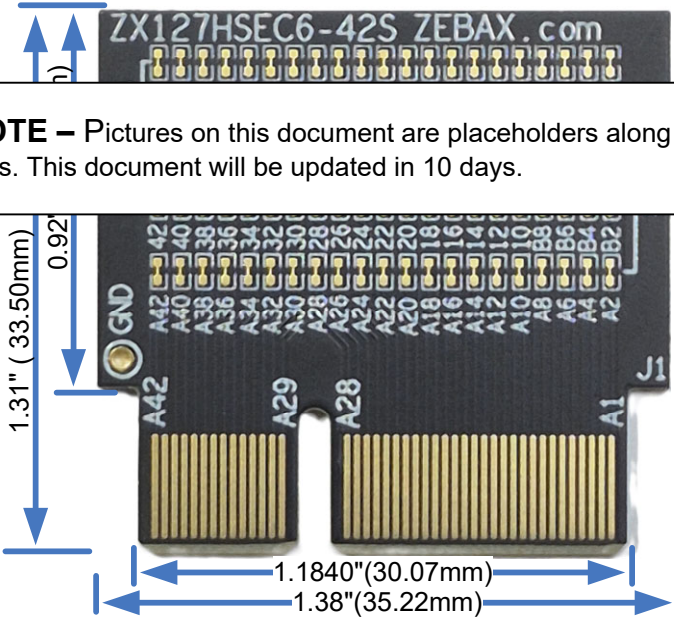
ZX127HSEC6-42V simplified cross section diagram



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

PLEASE NOTE – Pictures on this document are placeholders along with dimensions. This document will be updated in 10 days.



ZX127HSEC6-42V package includes:

Part number	Quantity	Description
ZX127HSEC6-42V	1	Breakout Adapter
ZX100ACC-SS	0	Flying lead wire assembly

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

ZEBAX TECHNOLOGIES		
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WWW.ZEBAX.COM		
SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT		ASSEMBLY DRAWING
		ITEM: ZX127HSEC6-42V
DESCRIPTION: Samtec HSEC6 / Mini Cool IO , MCIO , Breakout Adapter		
CHECKED:	DRAWN:	REVISION: 1.0
M. MAHIN	KADIJEH	
		SHEET: 1 OF 2

