Product Name: **ZX122xA – PCISIG M.2 NGFF passive adapter module offering KEY type A B E and M**

Product Description: PCISIG M.2 a.k.a. Next Generation Form Factor , NGFF, passive breakout adapter enabling access to all accessible M.2 signals while the ZX122xA is placed between Host and Target. Designed with 50Ω trace impedance on all traces, improved signal integrity and crosstalk.

ZX122xA provides access to all 67 signals via accessible 0402 SMD landing pads. Dedicated GND test point, interfacing with the inner ground layers + top/bottom GND fills.

ZX122xA can be inserted into any M.2 NGFF PCISIG connector and wired (stitched) to any Evaluation board (development board) for purpose of debugging, development, testing, or characterization.

- Designed in 4 layer PCB
- All signals accessible via 0402 SMD landing pads.
- Dedicated Module GND test point for ease of probing and system ground reference.
- The “GND” test point, accessing inner ground layers for improved signal integrity and crosstalk.
- Matching 50Ω trace impedance on all traces.

“GND” test points and Mounting holes are connected to 2 internal GND layers.

Application: Bringup, testing, emulation, development, modular design evaluations for wifi GPS GYRO Compass BT FM sensor module

Mates with : Any standard M.2 NGFF PCISIG connector, please see ORDER info for “Key”, meeting Keys A, B, E and M configuration –
TE 2199125 2199119 2199230 2199133
JAE SM3ZS067
Bellwether: SD-80148 SD-80149 SD-80152 SD-80159

OnBoard M.2 connector 4.1 mm Height

Pitch: 0.5mm

Breakout Access: Accessible via 0402 SMD landing pads. All signals are accessible on top layer of the module. Dedicated GND test point interfacing with the inner ground layers + top/bottom GND fills.

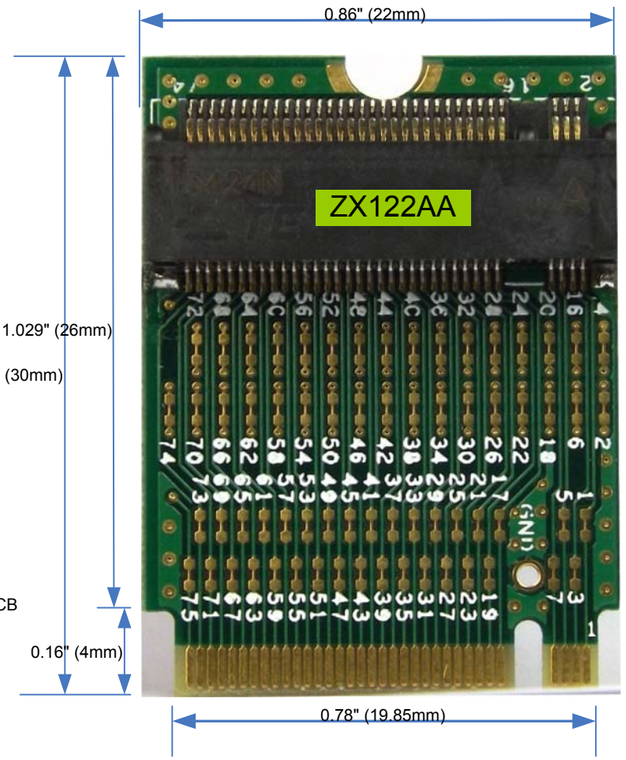
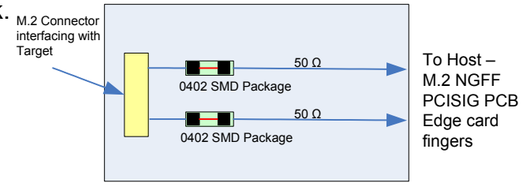
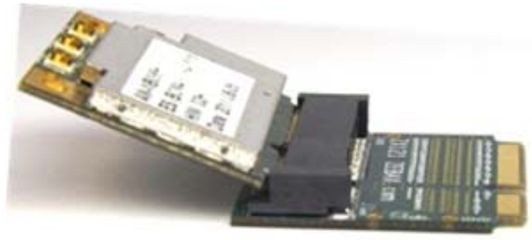


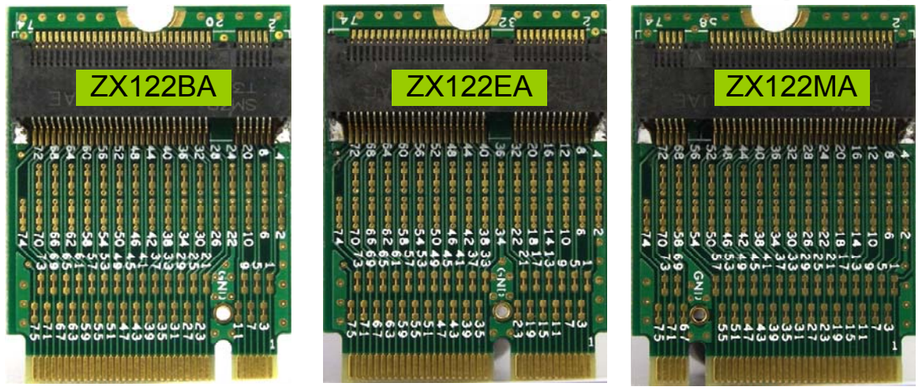
Figure 2- Simplified Block diagram





Device Under Test, DUT

Ordering INFO:
Part Number
ZX122xA option(x)
- A: M.2 NGFF Key “A”
- B: M.2 NGFF Key “B”
- E: M.2 NGFF Key “E”
- M: M.2 NGFF Key “M”

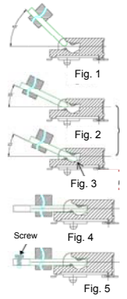


Note

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

Module Insertion, Removal process:

1- Move the Module against the housing chamber, see figure 1
2- Rotate module to 25°, insert it until the module surface reaches the ramp, figure 2, 3
3- Rotate the module to horizontal position, see figure 4
4- Fix the module by screw, see figure 5



Notice

ZEBAX TECHNOLOGIES
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WWW.ZEBAX.COM

SPECIFIED DIMENSIONS ARE INCHES (MM).
ROHS COMPLIANT

ASSEMBLY DRAWING

ITEM: ZX122xA M.2 NGFF PCISIG

DESCRIPTION: M.2 NGFF PCISIG passive adapter module keys A B E and M

CHECKED: M. MARINA
DRAWN: SLAVIK
REVISSION: 1.0
SHEET: 1 OF 1