

Product Name: ZX104LX-38-PLUG Mictor Breakout Adapter - test and measurement applications

Product Description: Mictor breakout adapter , test board , module with onboard Mictor Plug interfacing with host (Mictor Receptacle). Designed for general test and measurement of electronic designs with improved signal integrity and crosstalk. Ideal design, offering Logic Analyzer as well as flying probe signal assignments. ZX104LX Mictor breakout adapter is offered in Right Angle (RA) and Straight (ST) header configuration. The base PCB is identical for both assemblies.

- 50 Ω trace impedance
- 4 layers PCBoard design
- No via on any signal traces
- Improved signal integrity and crosstalk.
- GND test point is connected to 2 inner GND PCB layers along with Mictor connector's GND center tab (Blade). Ideal GND interface to device under test, DUT, and test equipment

In addition to ALL Mictor signal being available at header, **dedicated** test points for I2C-SDA, I2C-SCL, +5V, GND is provided for direct connection

Application: Characterization , Bringup , emulation , test and measurement , design , evaluation , pre-bringup

Mates with : Any Tyco's 38 pins (2 rows 19pins/row) Mictor Socket offered at any height
 2-767004-2 767096-8 767096-1 767110-1 767114-1 767114-8
 767181-1 767054-1 767171-1 767081-1 767115-1
 2-5767004 5767096-8 5767096-1 5767110-1 5767114-1 5767114-8
 5767181-1 5767054-1 5767171-1 5767081-1 5767115-1
 767130-1 767146-1 767146-8 767094-1 767178-1 767178-8 767154-1 767153-8 767095-1
 5767130-1 5767146-1 5767146-8 5767094-1 5767178-1 1761316-8 5767154-1 5767153-8 5767095-1
 767044-1 767007 767056 767111 767116 767117 767118 767119 5767006 5767044

- Designed for use with Agilent **E5381A** differential probe, similar using multiple probes
- Designed for use with Single ended scope probe OR differential FET probe

Pitch: 0.64mm (0.025") centerline contact spacing connector, Legacy Mictor High Speed

Headers: Pitch 0.1" (2.54mm), 0.025" SQ with 0.228" (5.8mm) post height

ZX104LX- Mictor 38 Plug pin configuration

Layer	Header	Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal	
TOP	J2	3	VG	9	GND	13	D14	17	D12	21	D10	25	D8	29	D6	33	D4	37	D2	
		1	5V	5	CLKE	7	D15	11	D13	15	D11	19	D9	23	D7	27	D5	31	D3	35
TOP	Mictor_Plug	1, 3, 5, 7, 9, .. 37																		
BOTTOM		2, 4, 6, 8, 10, .. 38																		
BOTTOM	J3	4	DA	6	CKO	8	O15	12	O13	16	O11	20	O9	24	O7	28	O5	32	O3	36
		2	CK	10	GND	14	O12	18	O10	22	O8	26	O6	30	O4	34	O2	38	O0	

Header numbering refers to the Mictor's pin number
 "GND" header pins are connected to the 2 internal ground layers as well as top/bottom GND fills.

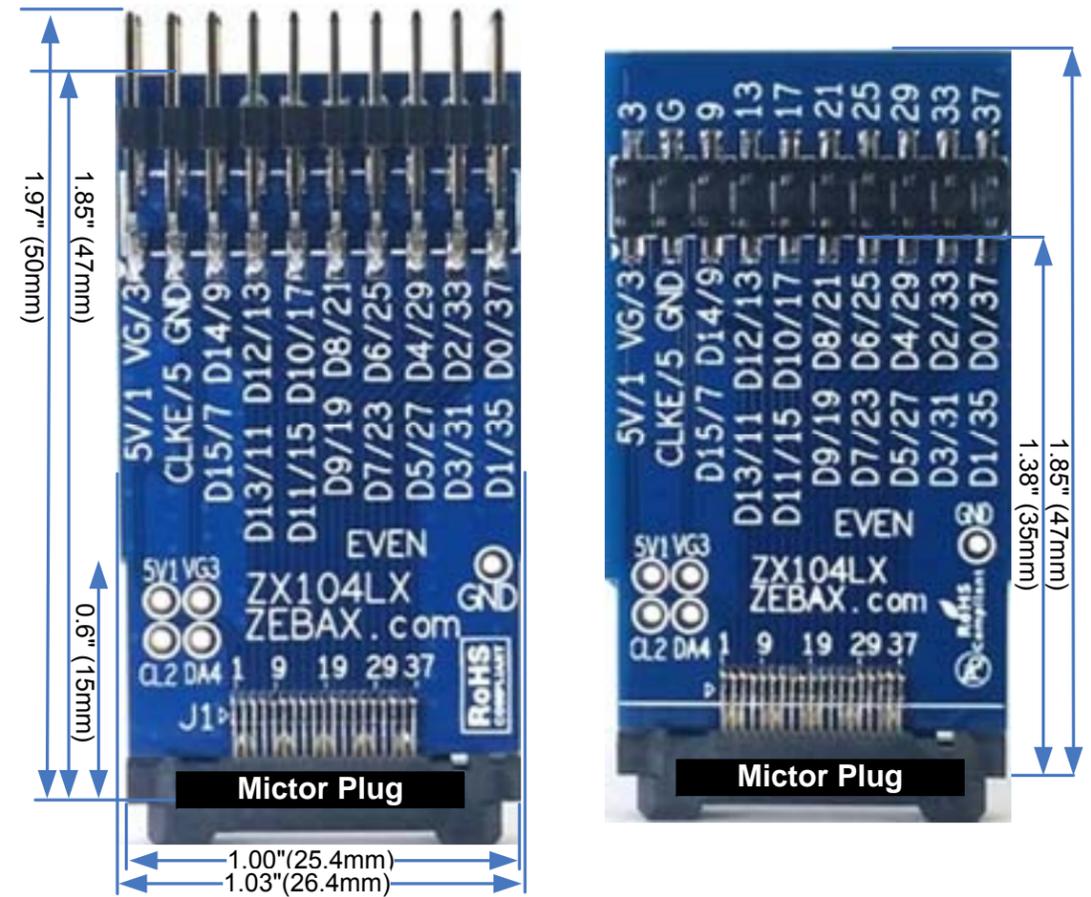


Header is assigned to Mictor pin #1
 Mictor standard naming convention for use with Logic Analyzer

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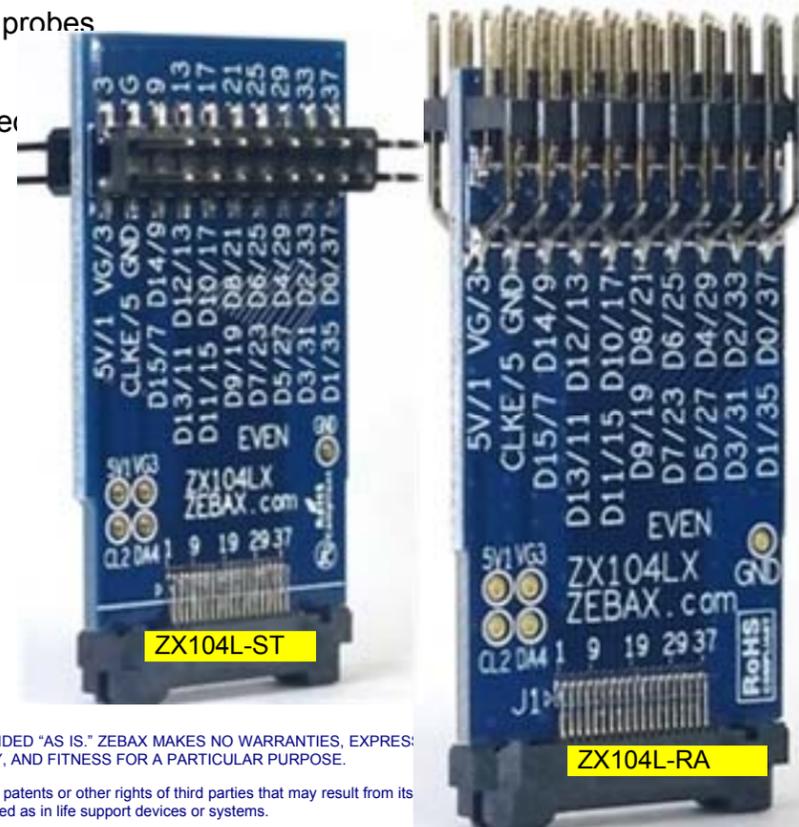


Test Point	Mictor pin #	Duplicate pin # at header	Function*
DA 4	4	SDA/4	I2C Data
CL2	2	SCL/2	I2C Clock
VG3	3	VG/3	Ground
5V1	1	5V/1	Supply
GND	center TAP	GND	

"**" Reserved specific board design function, not applicable to all designs
 GND TP is connected to Mictor's GND center tap as well as 2 internal ground planes.

Ordering INFO:
 Part Number
 ZX104LX-X options
 RA : Right Angle header
 ST : Straight header

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: ZX104LX-38-PLUG	
DESCRIPTION:	Mictor breakout adapter 38 pin Plug Test & Measurement	
CHECKED: M. MARINA	DRAWN: SLAVIK	REVISION: 1.0
		SHEET: 1 OF 1