

**Product Name: ZX114ER8-X Samtec ERM8 ERF8 Edge Rate rugged Breakout Adapter**

**Product Description:** ZX114ER8-x is Samtec ERM8 ERF8 connector series breakout adapter. It is collection of 12 modules supporting all connector pin counts within the ERM8 ERF8 connector series. ZX114ER8-x is designed for real-time electrical test and measurements, signal integrity, characterization, manufacturing loopback test applications.

ZX114ER8-x is commonly used throughout this document. It is referred to the ZX114ER8-x module where the "x" will be one of the 12 different ER8 / ERF8 connector series as listed in the *Ordering Information* section

**ZX114ER8-x features:**

- 1- All Samtec ERM8 – ERF8 signals are accessible via onboard headers for easy probe access.
- 2- Passthrough design where pin 1 of the ERM8 header ( plug ) is connected to pin 1 of ERF8 socket ( receptacle ).
- 3- Provides access to ALL Samtec ERM8 – ERF8 connectors via onboard 0.1" ( 2.54mm) pitch headers.
- 4- All traces are 50 Ohms impedance controlled with exceptional signal integrity & crosstalk.
- 5- Four layers PCB design, inner layers are GND planes.
- 6- Dedicated GND reference test points, interfacing with two inner GND planes.
- 7- Listed number adjacent to each header pin represents the associated Samtec ERM8 – ERF8 connector pin number.
- 8- **Mates** with any height and formfactor Samtec ERM8 – ERF8 edge rate rugged high speed connector series.
- 9- Fully compatible with Single Ended, -L ( Latching ), -EGPS ( Extended Guide Post Shield ), -EGP ( Extended Guide Post ), -DP ( Differential Pair ), -DSS ( Differential Pair + Extended Guide Post Shield ) Samtec connector ERM8 ERF8 series
- 10- Ease of interface with single channel and differential scope probes.
- 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: ERM8-xxx 2rows x XXX, where XXX is 005 to 075 pins/row  
 ERF8-xxx 2rows x XXX, where XXX is 005 to 075 pins/row

Mates with: Any Samtec ERM8 & ERF8 formfactor  
 Pitch: 0.0315" ( 0.80mm ) pin to pin pitch  
 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:** Bringup, testing, emulation, development, modular design evaluations, manufacturing loopback

**Mates with :** Any height and formfactor Samtec ERM8 ERF8 connector series

Mates with ERM8 & ERF8 connector series :

- 1- Latching, -L
- 2- Extended Guide Post Shield, -EGPS.
- 3- ( Extended Guide Post, -EGP.
- 4- Differential Pair, -DP.
- 5- Differential Pair + Extended Guide Post Shield, -DSS.  
 For Differential Pair signaling applications, unused signal can be left unconnected or Grounded for improved noise immunity.
- 6- ERCD and ERDP micro and twinax cable assembly

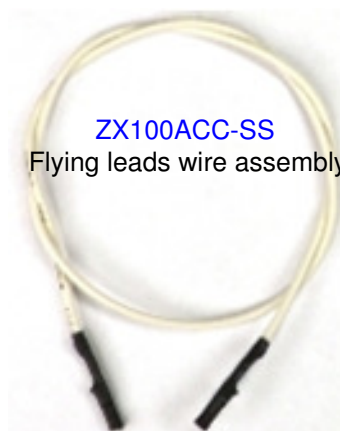
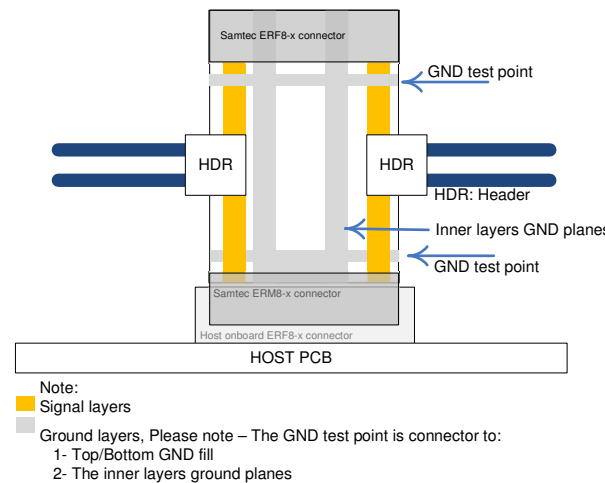
**Signal assignments:** Please refer to subsequent pages for specific ZX114ER8-x module and associated signal assignment table.

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ZX114ER8-x simplified cross section diagram

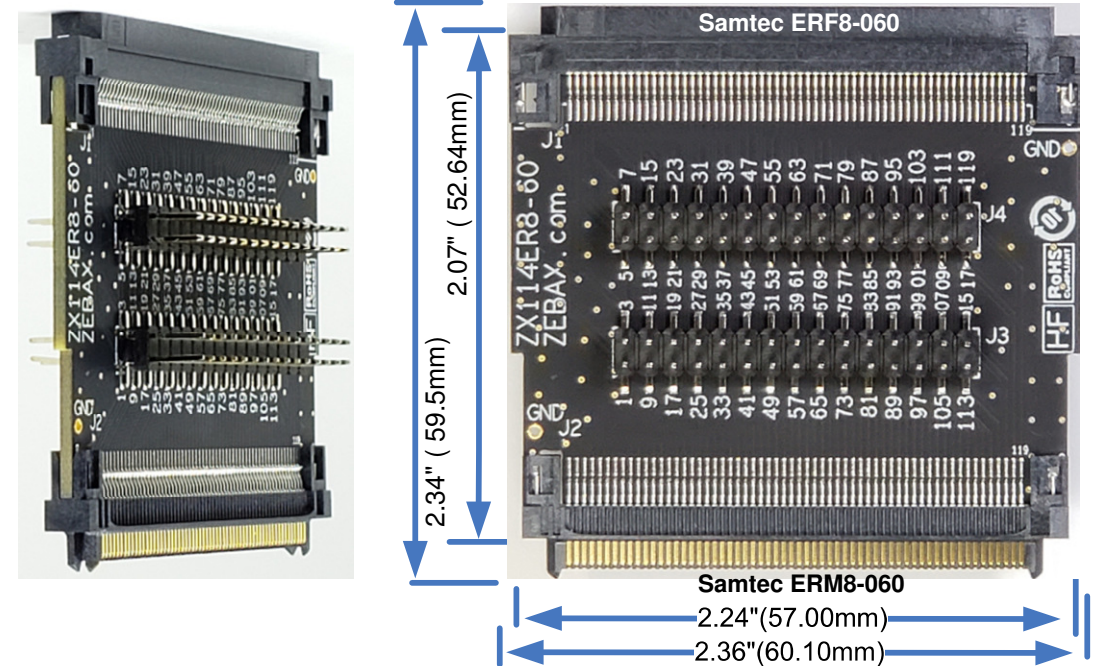


ZX100ACC-SS  
 Flying leads wire assembly

**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 page 7, ZX114ER8-70 & ZX114ER8-75 modules are placeholder for the actual module. The listed dimensions are correct for each listed module.

**Ordering Information:**

Part number	Mates with	Description
ZX114ER8-05	ERM8-005 ERF8-005	2 rows x 05 pins/row breakout adapter
ZX114ER8-10	ERM8-010 ERF8-010	2 rows x 10 pins/row breakout adapter
ZX114ER8-13	ERM8-013 ERF8-013	2 rows x 13 pins/row breakout adapter
ZX114ER8-20	ERM8-020 ERF8-020	2 rows x 20 pins/row breakout adapter
ZX114ER8-25	ERM8-025 ERF8-025	2 rows x 25 pins/row breakout adapter
ZX114ER8-30	ERM8-030 ERF8-030	2 rows x 30 pins/row breakout adapter
ZX114ER8-40	ERM8-040 ERF8-040	2 rows x 40 pins/row breakout adapter
ZX114ER8-49	ERM8-049 ERF8-049	2 rows x 49 pins/row breakout adapter
ZX114ER8-50	ERM8-050 ERF8-050	2 rows x 50 pins/row breakout adapter
ZX114ER8-60	ERM8-060 ERF8-060	2 rows x 60 pins/row breakout adapter
ZX114ER8-70	ERM8-070 ERF8-070	2 rows x 70 pins/row breakout adapter
ZX114ER8-75	ERM8-075 ERF8-075	2 rows x 75 pins/row breakout adapter

ZX100ACC-SS Flying leads wire assembly

[ZX100ACC-SS site page](#) for ordering the flying leads wire assembly

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<b>DESCRIPTION:</b> Samtec Edge Rate rugged high speed connector Breakout Adapter		
CHECKED: M. MARINA	DRAWN: MATTHEW	REVISION: 1.0 SHEET: 1 OF 7

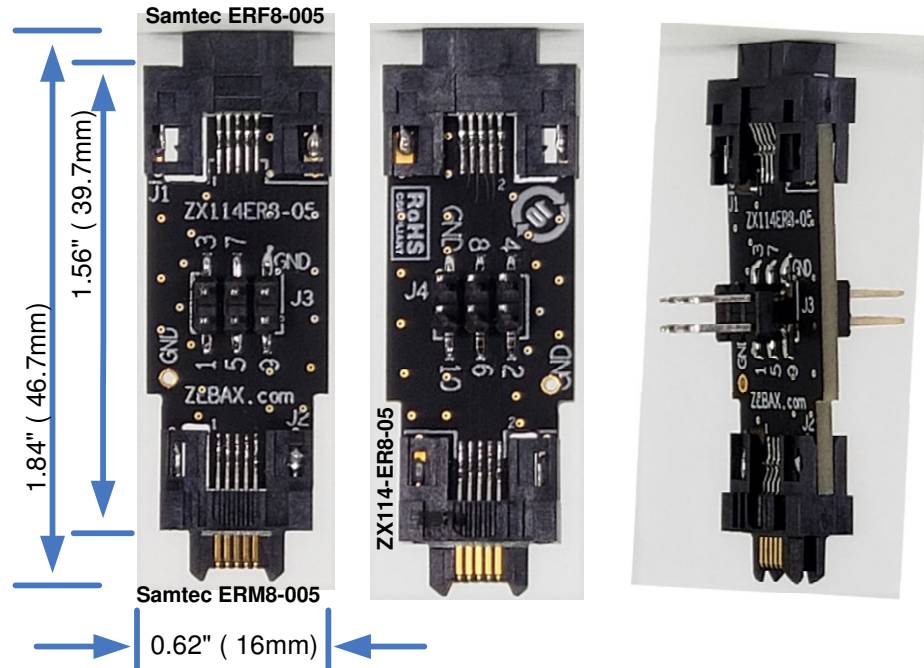


**Product Name: ZX114ER8-X Samtec ERM8 ERF8 Edge Rate rugged Breakout Adapter**

**Breakout Access :** All ZX114ER8-x breakout adapters provide breakout access via onboard 0.1" ( 2.54mm ) pitch headers. All signals are accessible on top & bottom layers of the module. The dedicated GND test points interfacing with the inner ground layers + top/bottom GND fills. It is advised to connect the GND test point to system GND reference as well as test equipment GND reference.

**ZX114ER8-x part numbers :** ZX114ER8-x is offered in 12 different models, supporting each ERM8 / ERF8 connector series. Below are each part number with associated Signal assignment table.

**ZX114ER8-05** - Two rows x 05 pins per row ERM8 – ERF8 breakout adapter , supporting ERM8-005 & ERF8-005 Samtec Edge Rate rugged connectors

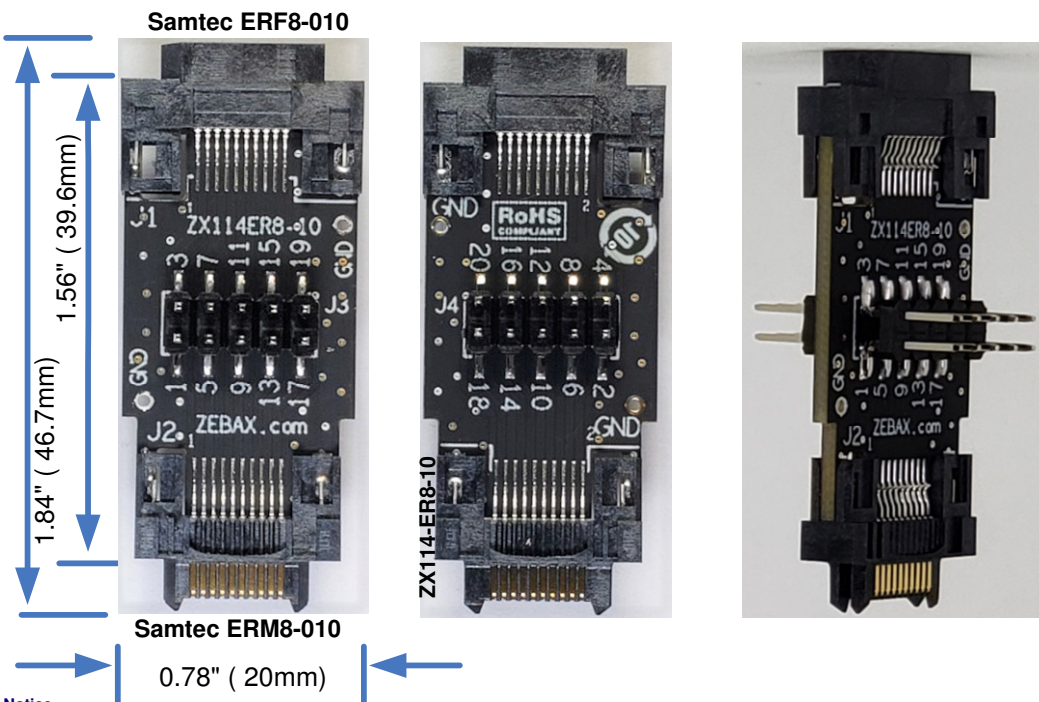


**ZX114ER8-05 header pin assignments**  
**J1: ERF8-005 J2: ERM8-005**

Bottom	Headers	J4	4	8	GND
			2	6	10
Top	Headers	J3	3	7	GND
			1	5	9

Header pin numbers refer to the SAMTEC ERM8 - ERF8 connectors pin numbers - Pin 1 of ERF8 is connected to Pin 1 of ERM8  
 GND header pin is connected to top & bottom GND fill as well as the inner layers GND planes.

**ZX114ER8-10** – Two rows x 10 pins per row ERM8 – ERF8 breakout adapter , supporting ERM8-010 & ERF8-010 Samtec Edge Rate rugged connectors



**ZX114ER8-10 header pin assignments J1: ERF8-010 J2: ERM8-010**

Bottom	Headers	J4	4	8	12	16	20
			2	6	10	14	18
Top	Headers	J3	3	7	11	15	19
			1	5	9	13	17

Header pin numbers refer to the SAMTEC ERM8 - ERF8 connectors pin numbers - Pin 1 of ERF8 is connected to Pin 1 of ERM8

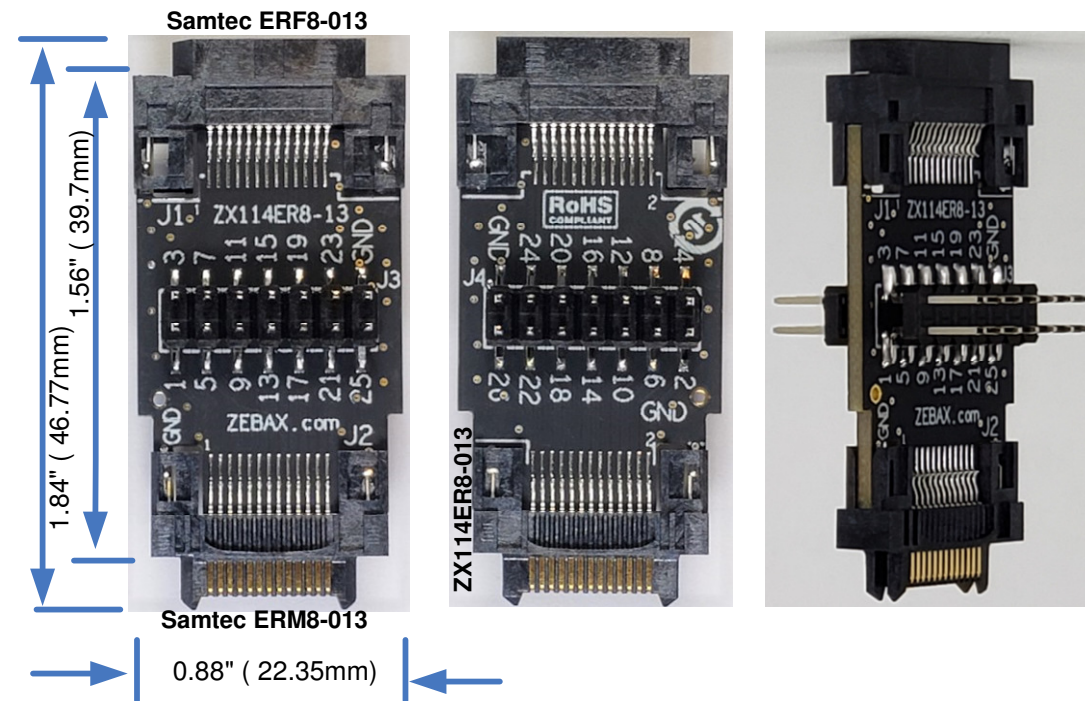
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**Product Name: ZX114ER8-X Samtec ERM8 ERF8 Edge Rate rugged Breakout Adapter**

**ZX114ER8-013** - Two rows x 13 pins per row ERM8 – ERF8 breakout adapter , supporting ERM8-013 & ERF8-013 Samtec Edge Rate rugged connectors

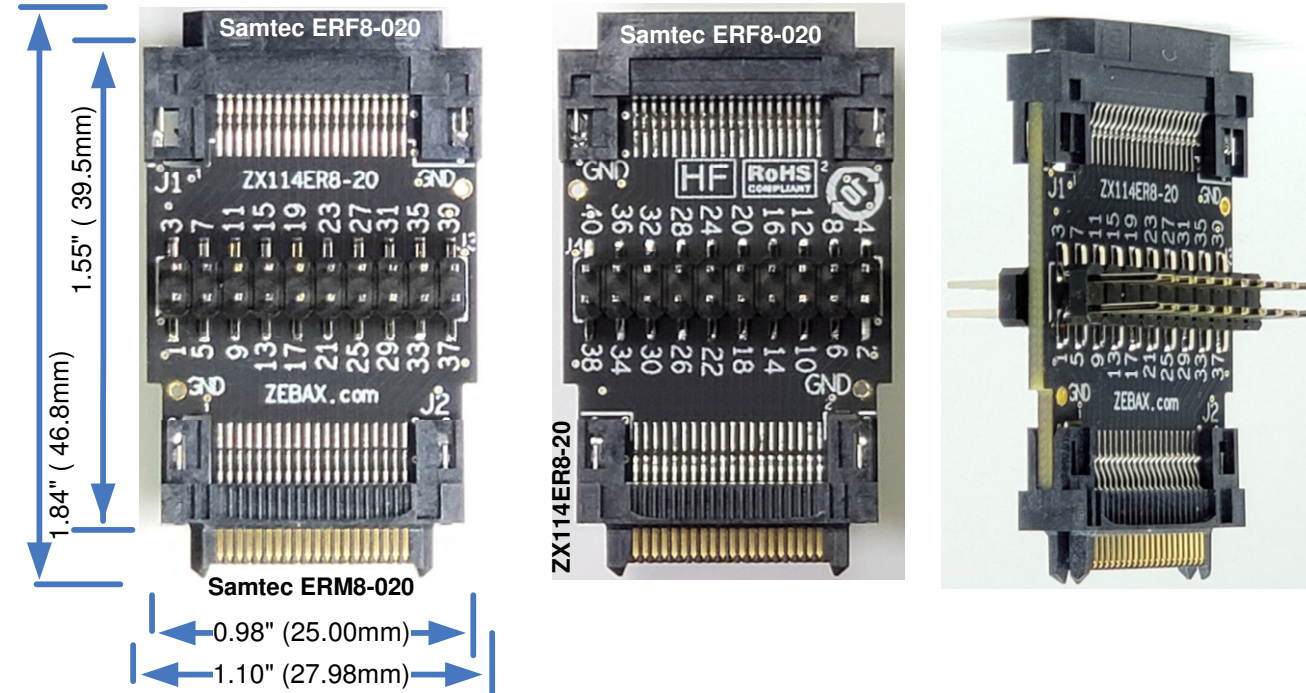


**ZX114ER8-13 header pin assignments J1: ERF8-013 J2: ERM8-013**

Bottom	Headers	J4	4	8	12	16	20	24	GND
			2	6	10	14	18	22	26
Top	Headers	J3	3	7	11	15	19	23	GND
			1	5	9	13	17	21	25

Header pin numbers refer to the SAMTEC ERM8 - ERF8 connectors pin numbers - ERF8 pin 1 connected to ERM8 GND header pin is connected to top & bottom GND fill as well as the inner layers GND planes.

**ZX114ER8-020** - Two rows x 20 pins per row ERM8 – ERF8 breakout adapter , supporting ERM8-020 & ERF8-020 Samtec Edge Rate rugged connectors



**ZX114ER8-20 header pin assignments J1: ERM8-020 J2: ERF8-020**

Bottom	Headers	J4	4	8	12	16	20	24	28	32	36	40
			2	6	10	14	18	22	26	30	34	38
Top	Headers	J3	3	7	11	15	19	23	27	31	35	39
			1	5	9	13	17	21	25	29	33	37

Header pin numbers refer to the SAMTEC ERM8 - ERF8 connectors pin numbers - Pin 1 of ERF8 is connected to Pin 1 of ERM8

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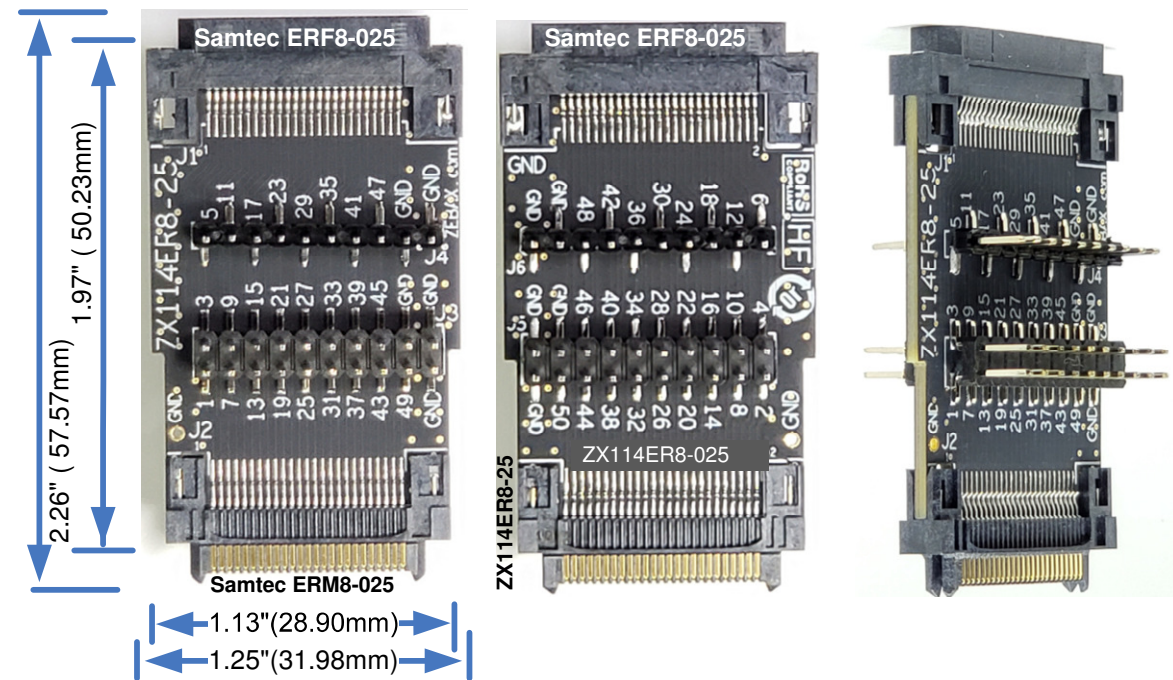
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**Product Name: ZX114ER8-X Samtec ERM8 ERF8 Edge Rate rugged Breakout Adapter**

**ZX114ER8-025** - Two rows x 25 pins per row ERM8 – ERF8 breakout adapter , supporting ERM8-025 & ERF8-025 Samtec Edge Rate rugged connectors

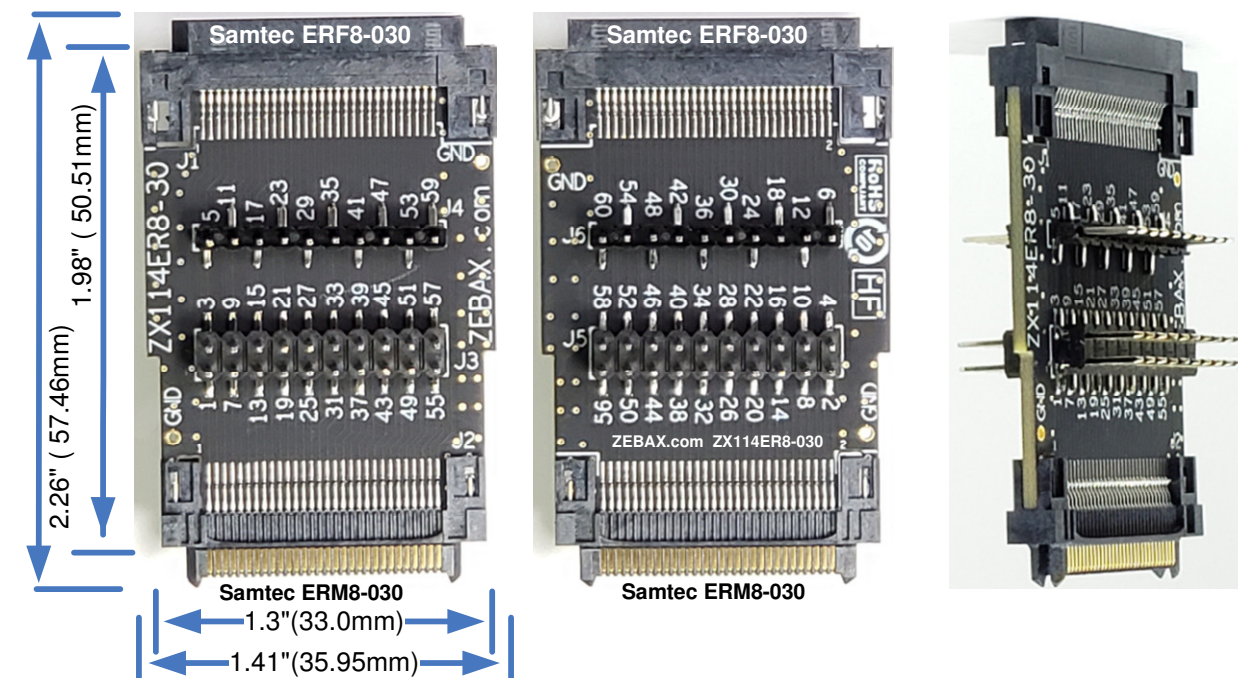


**ZX114ER8-25 header pin assignments J1: ERM8-025 J2: ERF8-025**

		J6	6	12	18	24	30	36	42	48	GND	GND
Bottom	Headers											
		J5	4	10	16	22	28	34	40	46	GND	GND
			2	8	14	20	26	32	38	44	50	GND
Top	Headers	J4	5	11	17	23	29	35	41	47	GND	GND
		J3	3	9	15	21	27	33	39	45	GND	GND
			1	7	13	19	25	31	37	43	49	GND

Header pin numbers refer to the SAMTEC ERM8 - ERF8 connectors pin numbers - Pin 1 of ERF8 is connected to Pin 1 of ERM8  
GND header pin is connected to top & bottom GND fill as well as the inner layers GND planes.

**ZX114ER8-030** - Two rows x 30 pins per row ERM8 – ERF8 breakout adapter , supporting ERM8-030 & ERF8-030 Samtec Edge Rate rugged connectors



**ZX114ER8-30 header pin assignments J1: ERF8-030 J2: ERM8-030**

		J6	6	12	18	24	30	36	42	48	54	60
Bottom	Headers											
		J5	4	10	16	22	28	34	40	46	52	58
			2	8	14	20	26	32	38	44	50	56
Top	Headers	J4	5	11	17	23	29	35	41	47	53	59
		J3	3	9	15	21	27	33	39	45	51	57
			1	7	13	19	25	31	37	43	49	55

Header pin numbers refer to the SAMTEC ERM8 - ERF8 connectors pin numbers - Pin 1 of ERF8 is connected to Pin 1 of ERM8

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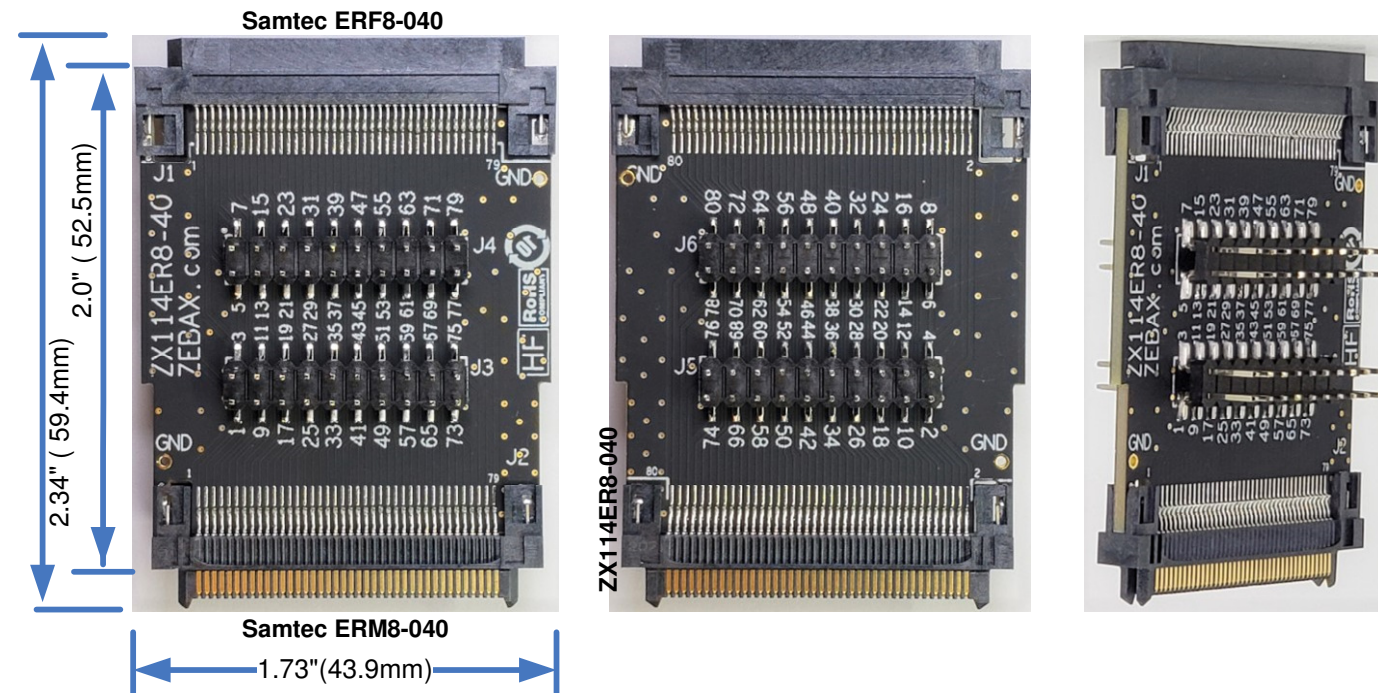
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**Product Name: ZX114ER8-X Samtec ERM8 ERF8 Edge Rate rugged Breakout Adapter**

**ZX114ER8-040** - Two rows x 40 pins per row ERM8 – ERF8 breakout adapter , supporting ERM8-040 & ERF8-040 Samtec Edge Rate rugged connectors

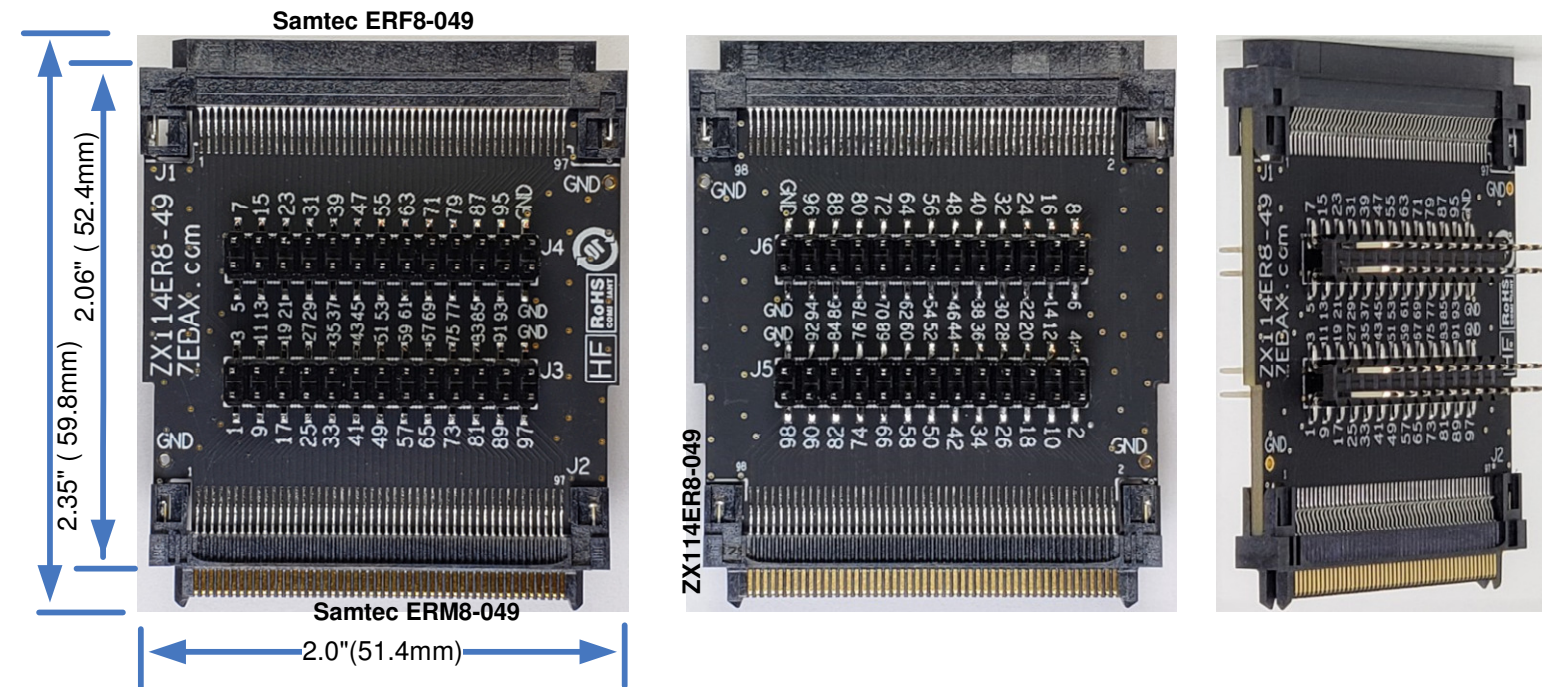


**ZX114ER8-40 header pin assignments J1: ERF8-040 J2: ERM8-040**

Bottom	Headers	J6	8	16	24	32	40	48	56	64	72	80
			6	14	22	30	38	46	54	62	70	78
		J5	4	12	20	28	36	44	52	60	68	76
			2	10	18	26	34	42	50	58	66	74
Top	Headers	J4	7	15	23	31	39	47	55	63	71	79
			5	13	21	29	37	45	53	61	69	77
		J3	3	11	19	27	35	43	51	59	67	75
			1	9	17	25	33	41	49	57	65	73

Header pin numbers refer to the SAMTEC ERM8 - ERF8 connectors pin numbers - Pin 1 of ERF8 is connected to Pin 1 of ERM8

**ZX114ER8-049** - Two rows x 49 pins per row ERM8 – ERF8 breakout adapter , supporting ERM8-049 & ERF8-049 Samtec Edge Rate rugged connectors



**ZX114ER8-49 header pin assignments J1: ERF8-049 J2: ERM8-049**

Bottom	Headers	J5	8	16	24	32	40	48	56	64	72	80	88	96	GND
			6	14	22	30	38	46	54	62	70	78	86	94	GND
		J4	4	12	20	28	36	44	52	60	68	76	84	92	GND
			2	10	18	26	34	42	50	58	66	74	82	90	98
Top	Headers	J3	7	15	23	31	39	47	55	63	71	79	87	95	GND
			5	13	21	29	37	45	53	61	69	77	85	93	GND
		J2	3	11	19	27	35	43	51	59	67	75	83	91	GND
			1	9	17	25	33	41	49	57	65	73	81	89	97

Header pin numbers refer to the SAMTEC ERM8 - ERF8 connectors pin numbers - Pin 1 of ERF8 is connected to Pin 1 of ERM8  
GND header pin is connected to top & bottom GND fill as well as the inner layers GND planes.

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**DESCRIPTION: Samtec Edge Rate rugged high speed connector Breakout Adapter**

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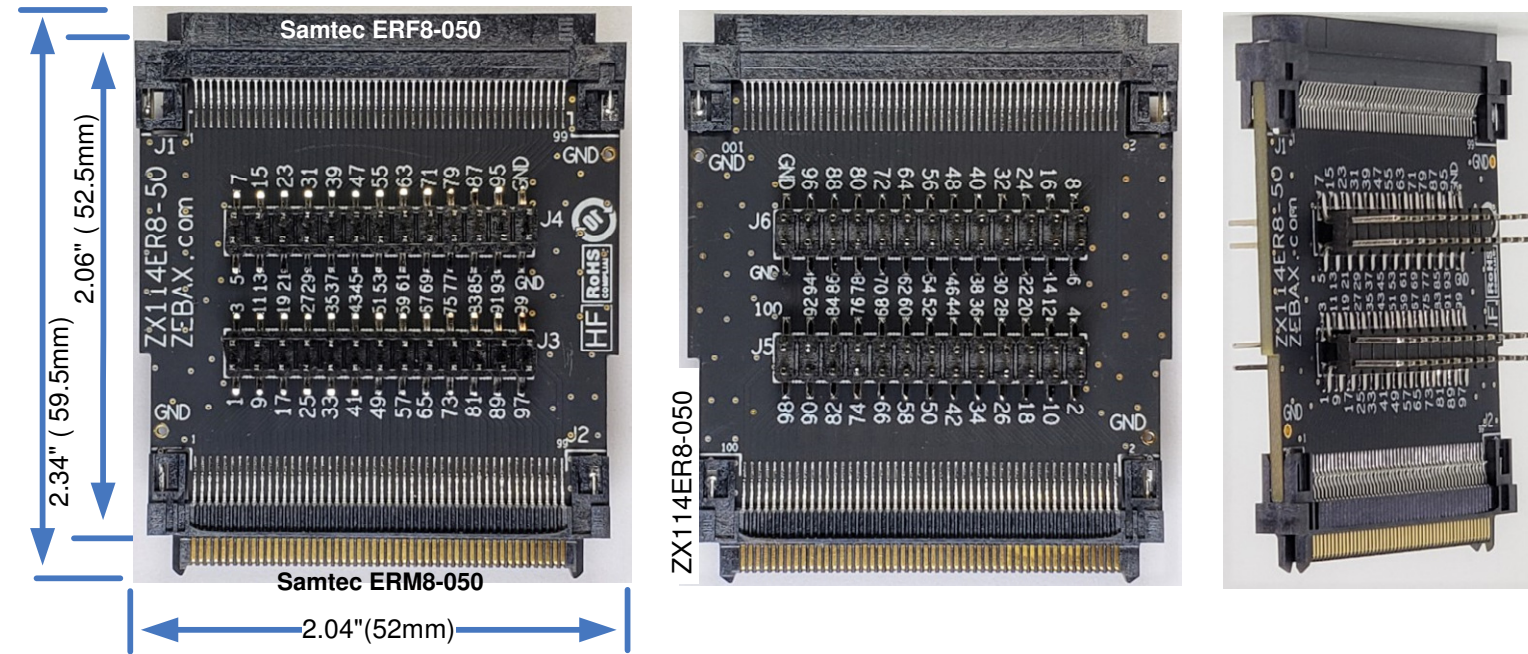
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**Product Name: ZX114ER8-X Samtec ERM8 ERF8 Edge Rate rugged Breakout Adapter**

**ZX114ER8-050** - Two rows x 50 pins per row ERM8 – ERF8 breakout adapter , supporting ERM8-050 & ERF8-050 Samtec Edge Rate rugged connectors

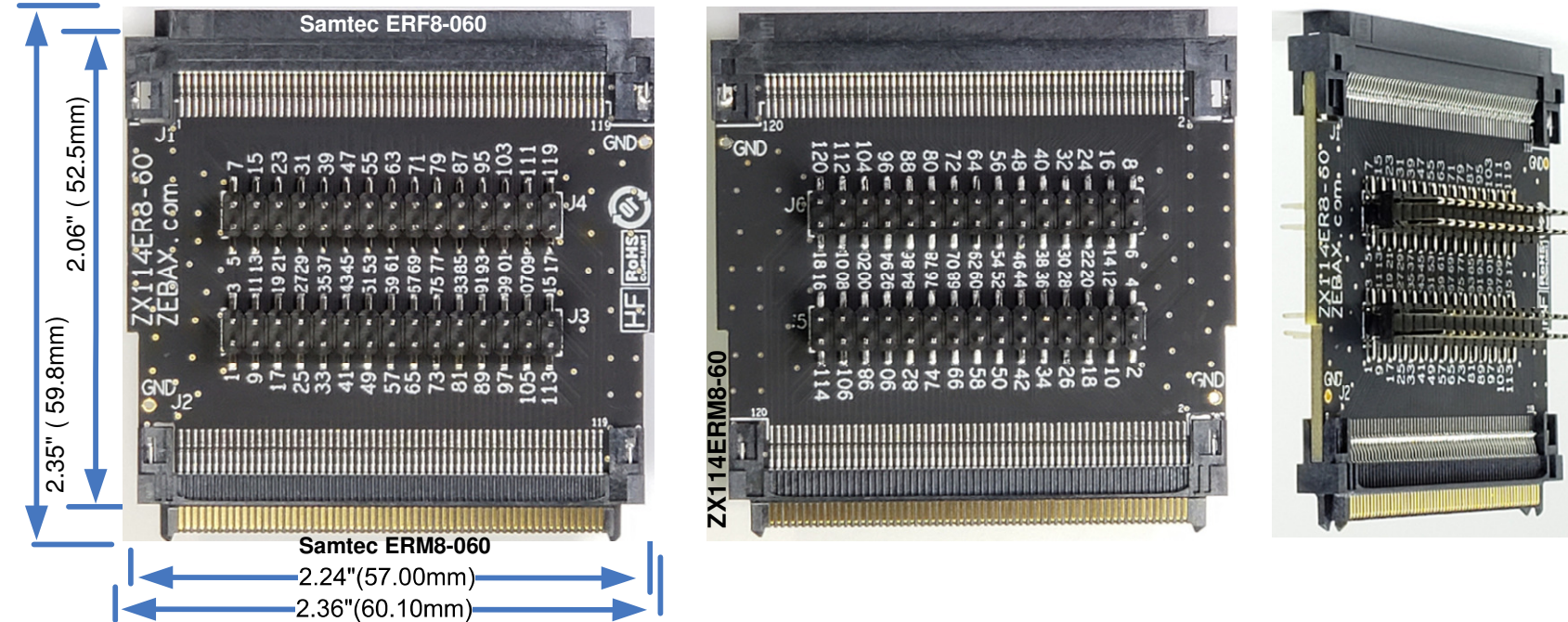


**ZX114ER8-50 header pin assignments J1: ERM8-050 J2: ERF8-050**

Bottom	Headers	J5													
		8	16	24	32	40	48	56	64	72	80	88	96	GND	
		6	14	22	30	38	46	54	62	70	78	86	94	GND	
	J4	J1													
		4	12	20	28	36	44	52	60	68	76	84	92	100	
		2	10	18	26	34	42	50	58	66	74	82	90	98	
Top	Headers	J3													
		7	15	23	31	39	47	55	63	71	79	87	95	GND	
		5	13	21	29	37	45	53	61	69	77	85	93	GND	
	J2	J2													
		3	11	19	27	35	43	51	59	67	75	83	91	99	
		1	9	17	25	33	41	49	57	65	73	81	89	97	

Header pin numbers refer to the SAMTEC ERM8 - ERF8 connectors pin numbers - Pin 1 of ERF8 is connected to Pin 1 of ERM8  
GND header pin is connected to top & bottom GND fill as well as the inner layers GND planes.

**ZX114ER8-060** - Two rows x 60 pins per row ERM8 – ERF8 breakout adapter , supporting ERM8-060 & ERF8-060 Samtec Edge Rate rugged connectors



**ZX114ER8-60 header pin assignments J1: ERM8-060 J2: ERF8-060**

Bottom	Headers	J5																	
		8	16	24	32	40	48	56	64	72	80	88	96	104	112	120			
		6	14	22	30	38	46	54	62	70	78	86	94	102	110	118			
	J4	J1																	
		4	12	20	28	36	44	52	60	68	76	84	92	100	108	116			
		2	10	18	26	34	42	50	58	66	74	82	90	98	106	114			
Top	Headers	J3																	
		7	15	23	31	39	47	55	63	71	79	87	95	103	111	119			
		5	13	21	29	37	45	53	61	69	77	85	93	101	109	117			
	J2	J2																	
		3	11	19	27	35	43	51	59	67	75	83	91	99	107	115			
		1	9	17	25	33	41	49	57	65	73	81	89	97	105	113			

Header pin numbers refer to the SAMTEC ERM8 - ERF8 connectors pin numbers - Pin 1 of ERF8 is connected to Pin 1 of ERM8

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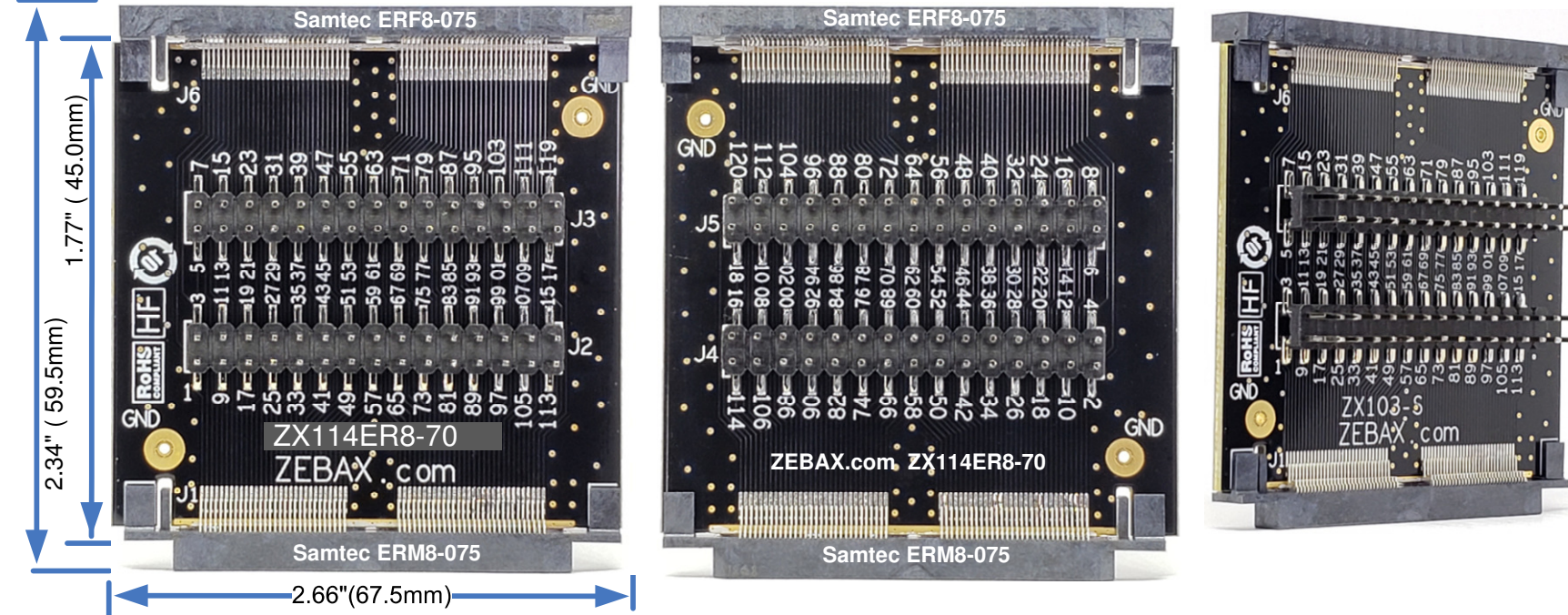
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**Product Name: ZX114ER8-X Samtec ERM8 ERF8 Edge Rate rugged Breakout Adapter**

**ZX114ER8-70** - Two rows x 70 pins per row ERM8 – ERF8 breakout adapter , supporting ERM8-070 & ERF8-070 Samtec Edge Rate rugged connectors

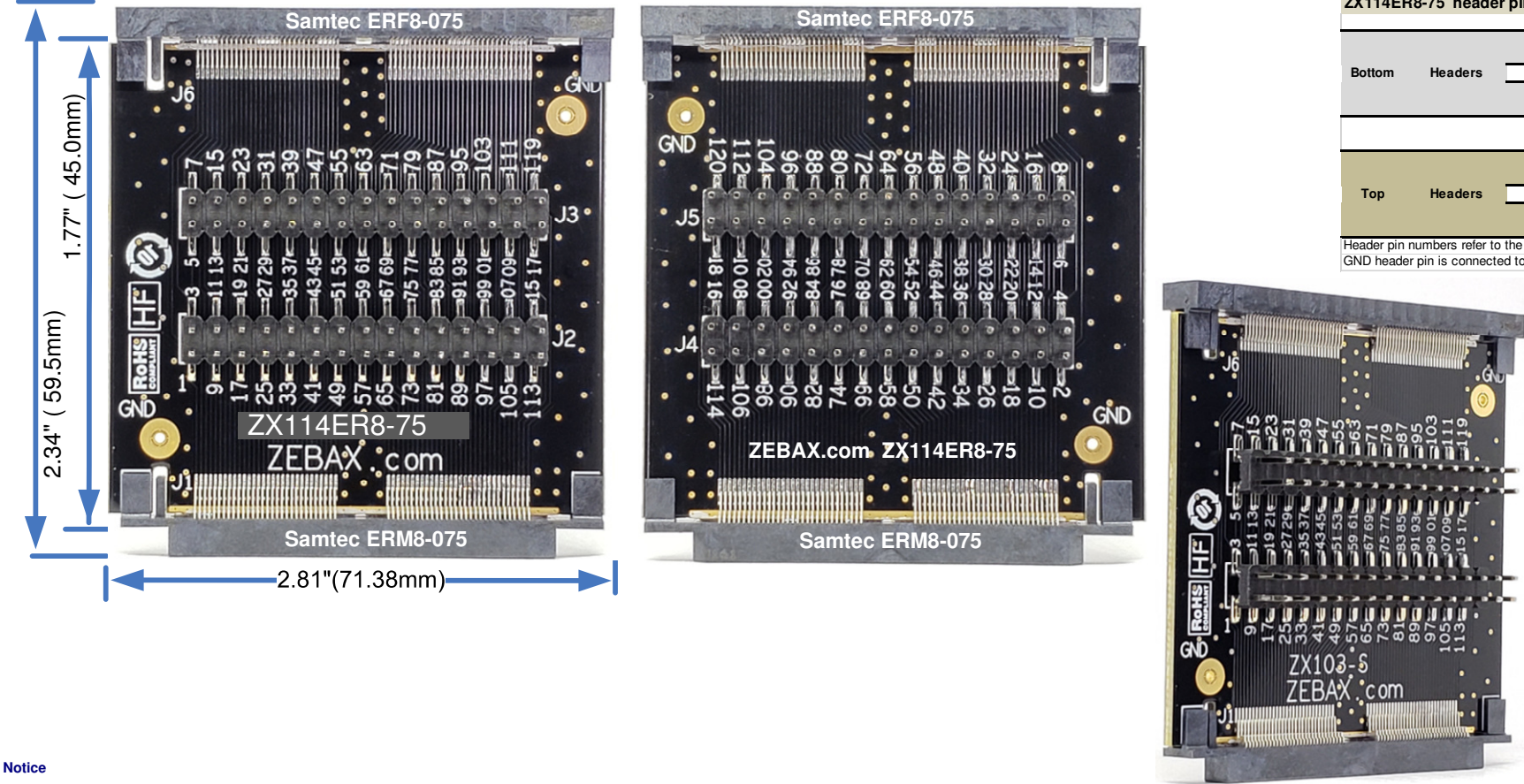


**ZX114ER8-70 header pin assignments J1: ERM8-070 J2: ERF8-070**

		J5	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	GND
Bottom	Headers	J4	4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140
		J1	2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138
Top	Headers	J3	7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	GND
		J2	5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	GND
	Headers	J2	3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139
		J1	1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137

Header pin numbers refer to the SAMTEC ERM8 - ERF8 connectors pin numbers - Pin 1 of ERF8 is connected to Pin 1 of ERM8  
GND header pin is connected to top & bottom GND fill as well as the inner layers GND planes.

**ZX114ER8-75** - Two rows x 75 pins per row ERM8 – ERF8 breakout adapter , supporting ERM8-075 & ERF8-075 Samtec Edge Rate rugged connectors



**ZX114ER8-75 header pin assignments J1: ERM8-075 J2: ERF8-075**

		J5	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	GND
Bottom	Headers	J4	4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140	148
		J1	2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138	146
Top	Headers	J3	7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143	GND
		J2	5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141	149
	Headers	J2	3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139	147
		J1	1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137	145

Header pin numbers refer to the SAMTEC ERM8 - ERF8 connectors pin numbers - Pin 1 of ERF8 is connected to Pin 1 of ERM8  
GND header pin is connected to top & bottom GND fill as well as the inner layers GND planes.

**Note**  
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	<b>ITEM: ZX114ERM8-x</b>	
<b>DESCRIPTION: Samtec Edge Rate rugged high speed connector Breakout Adapter</b>		
<b>CHECKED:</b> M. MARINA	<b>DRAWN:</b> MATTHEW	<b>REVISION: 1.0</b> <b>SHEET: 7 OF 7</b>

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