

	1	1	2	1		3	1		4		5		1			6		1		7			ļ		8		
Ш	Product Nam	e: Cont's	ZX180HAPS-	ST – FPG	A 8x20 I	BGA Mez	zanine ca	ırd break	cout adapte	r		ı	Row	A	A	В	С	С	D	D	E	E F	F	G	G	н	
F	Ground:	The ZX180HAPS-fills. It is recomme			•				•			3	1 / 2 3 / 4 5 / 6			2 10 8 26 4 42		11 27 43	20 2	28	21 2	13 6 29 22 45 38	2 30			8 16 24 32 40 48	F
	Access:		provides access to .1 & 2.2 lists the ac								s SMD	9		65 7 81 8	<mark>/3 6</mark>	0 58 6 74 2 90		59 75 91	68 84 9	7 <mark>6</mark>	69 7 85 9	51 54 77 70 93 80	78 5 94	55 71 87	79 95	56 64 72 80 88 96	
\prod			he SEARAY signa he SEARAY signa						n.			15	5 / 16 7 / 18	113 1 129 1	21 1 37 1	30 138	115 131	115 123 139	116 1 132 1	24 1 40 1	117 1: 133 1:	25 11 41 13		119 135	127 £	.12	
E		ollowings are few reco ator, Network Analyze					est & measu	urement eq	quipment , scop	oe, function		Co	9 / 20 olumn	A	Δ Ι	154 3 B	С	155 C		D	E	57 15 E F	0 158 F	151 G		52 160 H H	E
	2- Usir	ng 32AWG solid copping high frequency serector part of the cable	mi-rigid coax cable	assembly,	ZX0002SI	RF4, to solo	der on any s	signal on Z	X180HAPS-ST	The SMA		Table	e 1 – SE	ARAY į	oin nu	mber ba	sed or	the R	ow/Colui				ayout d	esign s		signmer /	nts
	any 32	st: ZX180HAPS-S AWG solid copper w ement, ensuring solid	ire to inner connec	t any connec	ction comb	bination. Th	e ZX180HA	PS-ST ena	ables any desig	n loopback	test	Row	column column umn A	lists the	e row								AAB	SCCD U→N→	DEEF!	GGHH	
D	Typical Appl	1- Utilizing single2- Enabling designand assigned to	oroach in usage of or differential scop n changes, by re-a o new location by ju	breakout ad e probe for p ssignment o umper wires	lapters by purpose of any sign s.	: of test & mean	asurements as of cut and				t	1 9 17 25 33 41 49		7 18 5 26 8 34 42	19 2 27 2	37 4 45	22 23 30 31 38 39 46 47	24 32 40 48					111		6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		D
H	Scope Probe	3- Loopback test a wire Installation		nabling soft	ware deve	elopment & t	testing.					57 65 73	9 65 10 73	66 3 74	67 6 75 7		70 71 78 79	72 80					- 67-0	- W		1111	
С	·	2- In order to avoi reference. The 3- Both Keysight a	ded to keep the produced ground loop prob ZX180HAPS-ST p as well as Tektronis probes from each v	olems, pleas rovides two x offer variet	se use the GND test	shortest Gro points for re	ound probe eference.				sories,	97 105 113 121	14 100 15 113 16 123	90 90 98 98 98 98 98 98 98 98 98 98 98 98 98	91 9 99 10 107 10 115 11 123 12	93 93 0 101 8 109 6 117 4 125	94 95 102 103 110 111 118 119 126 127	96 104 112 120 128									С
$\left \cdot \right $		probe b) Tektro of TE	ght differential prol , N5426A ZIF Tip, onix offers several DP7000 series and	N2884A Fin single-ende more	ne Wire ZIF ed as well a	F Tip and m as differentia	ore – See thal al probes su	ne figure "p uch as : P62	robe head acc	essories".		153	18 13 19 14 20 15	7 138 5 146 3 154	139 14 147 14 155 15		142 143 150 151 158 159	144 152 160					1111		7	11111 20000	$ \cdot $
В	Signal Acces	4- Please follow y ss & re-route: Re-routing any sig new location.	C		•				I02 SMD shunt	t and re-rou	iting to							Note								SESSES FGGHH	В
H																	Z	EB.	AX CRUZ	PEC	CHI	NOI	OG	IES	<u> </u>		┾╢
A	Notice																SI	PECIFI RE INC	ED DIM CHES (M OMPLIA	IENS M).	SIONS		EMBI M: ZX		RAWI PS-ST	NG	A
$\ \ $	ALL ZEBAX TECHNOLOGIE	S DESIGN SPECIFICATIONS, DF OTHERWISE WITH RESPECT TO										SSED,					D	ESCI	RIPTIO						nine br HapsT	eakout ak3 HT3	3
$ \lfloor$		ved to be accurate and reliable. Ho nis publication are subject to chang										ts use.				•	СН	ECKED: M	MAR:	INA		RAWN: SLAV	K			10N: 1.0 2 OF	
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Accessories: The following accessories compliment ZX180HAPS-ST for testing purpose.

ZX00BC2PH30 30AWG Bare Copper wire to pin header wire assembly – It can be easily soldered to any pads on the ZX180HAPS-ST for scope probe interface.

ZX0002SRF4 High Frequency SMA to bare wire semi-rigid coax cable assembly – It is semi-rigid coax cable assembly where case of the cable assembly is exposed copper. It can easily soldered to any pads on ZX180HAPS-ST. With Insertion loss of >-0.5dB, ZX0002SRF4 is excellent for characterization and performance test qualification.

Compatibility Matrix: ZX180HAPS-ST is compatible with all listed connectors in the following tables. ZX180HAPSxx is referred to any ZX180HAPS design module, including ZX180HAPS-ST.

ZX180HAPSxx FMC breakout adapter mates with the following Samtec SEARAY™ connectors

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Suffice SEATON Confidences							
Туре	Samtec PN	Description					
	SEAM-20-02.0-S-08-1-A-K-TR SEAM-20-02.0-S-08-2-A-K-TR SEAM-20-02.0-L-08-1-A-K-TR SEAM-20-02.0-L-08-2-A-K-TR	male					
SEAM	SEAM-RA SEAM-20-01-S-08-1-RA SEAM-20-01-S-08-2-RA SEAM-20-01-L-08-2-RA SEAM-20-01-L-08-2-RA						
	SEAMP SEAMP-20-02.0-L-08 SEAMP-20-02.0-S-08 SEAMP-20-02.0-S-08-GP						
	SEAF SEAF-20-05.0-S-08-2-A-K-TR SEAF-20-05.0-L-08-2-A-K-TR						
	SEAFP-RA SEAFP-20-01-L-08-RA-WT-GP SEAFP-20-01-L-08-RA-WT						
SEAF	SEAFP SEAFP-20-05.0-L SEAFP-20-05.0-S	female					
	SEAF-RA SEAF-20-S-08-2-RA-GP SEAF-20-S-08-2-RA-LP SEAF-20-08-2-RA-K						

ZX180HAPSxx FMC breakout adapter mates with the following Molex SEARAY Slim Mezzanine connectors

Molex						
SEAM (Male)	SEAF (Socket)					
045970-2185	045971-2185					
45970-2185	45971-2185					
0459702185	0459712185					
045970-2285	045971-2285					
45970-2285	45971-2285					
0459702285	0459712285					
045970-2385	045971-2385					
45970-2385	45971-2385					
0459702385	0459712385					
045970-2485	045971-2485					
45970-2485	45971-2485					
0459702485	0459712485					
045970-2585	045971-2585					
45970-2585	45971-2585					
0459702585	0459712585					
045970-2685						
45970-2685						
0459702685						
045970-2715						
45970-2715						
0459702715						
SEARAY 45970 and 45971 are offered at various mated s						

stacking heights, ZX180HAPSxx mates with all versions of 8 columns 20 rows version of the Slim Mezzanine connector series.

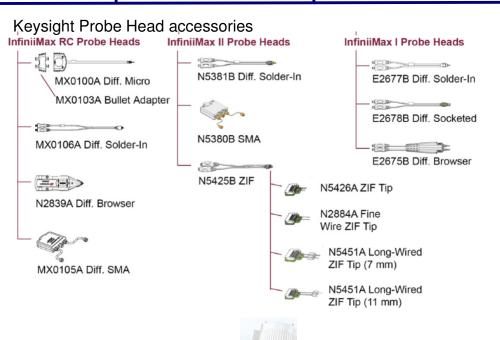
SEAM / SEAF connectors are offered with various options as listed below, ZX180HAPSxx mates with all versions of the SEAM / SEAM family for the 8 columns 20 row configuration.

Option	Description					
"- L"	"-L" 10u" (0.25um) Gold on contact area					
"-S"	30u" (0.76um) Gold on contact area					
"-1"	Tin/Lead Alloy Solder Charge					
"-2"	Lead-Free Solder Charge					

D

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SPECIFIED DIMENSIONS	ASSEMBLY DRAV					

ARE INCHES (MM).

WING

ITEM: ZX180HAPS-ST

SEARAY 8x20 FMC Mezzanine breakout DESCRIPTION: adapter - Synopsys HAPS HapsTrak3 HT3

CHECKED: M. MARINA

DRAWN: **SLAVIK** REVISSION: 1.0 SHEET: 3 OF 3 Ε

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