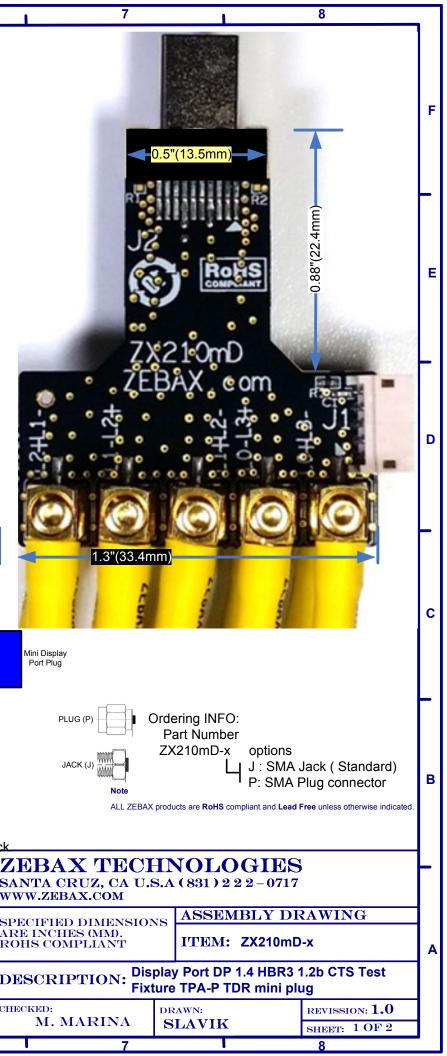
	1	1	2	1	3	1	4	1	5		6
	Product Name:	ZX210n	nD-x Display Port	t, DP 1.4 HB	R3 , CTS 1.2b	Test Fixture T	「PA-P TDR mi	ini plug			
F	Product Description:										
	Display Port, DP, 1.4 HBR3 electrical compliance Test Fixture - Test Access Point Plug (TPA-P TDR) supporting mini DP plug connector for applications requiring electrical compliance test and measurements for signal jitter, eye diagram and full DP 1.4 cts 1.2b electrical compliance test covering 1.62GHz, 2.7GHz, 5.4GHz and 8.1GHz signal bandwidth. ZX210mD-x DP Test Fixture supports full High Bit Rate, HBR (2.7GHz), HBR2 (5.4GHz) as well as the Reduced Bit Rate/Low Bit Rate (1.62GHz) signal bandwidth. ZX210mD-x is designed meeting DP Test Fixture for the covers of the requirements, measuring -4.5dB insertion loss at 8.1GHz.										
	 ZX210mD-x sup 	oports Displ	ay Port's mini plug c	onnector, matir	g with receptacle.						
	 Onboard connection 	ctor, J1, aco	cessing +3.3V, HOTF	PLUG, CFG1, C	CFG2, and GND sig	gnal					
	 The DP Test Fix 	xture is ship	ped with cable asser	mbly, accessing	g the J1 signals at p	pin headers.			eter, Insertion Io	oss:	
E	 Multi-Layer PCB design, with improved signal integrity and crosstalk Insertion Loss -4.5dB @ 8.1GHz 										
	 Includes 8" (20c 	cm) long ser	mi-flexible cable asse	emblies with SM	/IA Plug or Jack co	nnectors.					
	 Test Fixture sup 	oports electr	ical compliance for:		-						
-	HBR : High Bit Rate (2.7Gbps / lane)										
		•	Bit Rate 2 (5.4Gb)	, ,							
	ľ	HBR3 : Higr	Bit Rate 3 (8.1Gb	ps / lane)							
D	Test Fixture sup	oports full D	P 1.4 standard opera	ating bandwidth	of 32.4GHz with 8	.1GHz per lane				KINKS	
	ZX210mD-x includes 8" (20cm) long semi-flexible cable assemblies with SMA Plug or Jack connectors interfacing directly to scope probe or other cable assemblies. Cable replacement or longer 16" (40cm) cable assemblies can be purchased, see " <i>Package Includes</i> ".										
		The ZX210x DP Test Fixture is characterized using the supplied 8" (20cm) long cable assemblies along with an additional 8" long extension long cable assemblies to scope probes. Tektronix DPO71604C scope using P7313SMA differential probes. Keysight DSA164A Infiniium									
	long cable assembli scope using N2800/	ies to scope A probes + (probes. Tektronix D differential probe lea	DPO71604C sco ds N54444A.	ope using P7313SN	A differential pr	robes. Keysight	DSA164A Infini	iium		DP PWR
		·									
	Application: Full Dis	splay Port, E)P, 1.4 HBR3 CTS 1	.2b electrical co	ompliance test, Clo	ck Jitter, eye dia	agram,		MLON_ML3P	ີດີ C1 ບຼາຍ 0.1µF	
С	single e	ended & diff	erential ended signa	lling electrical n	neasurement.	$\sim O_{\ell}$	•		MLOP ML3N ML1N ML2P		J2
					•				ML1P_ML2N ML2N_ML1P		
	Supported resolutior	ns:	HBR3, 8K UHDTV ((7680x4320)@) 60 Hz <mark>4:2:0 sub</mark> sa	ampling.			ML2P ML1N ML3N_ML0P	1	
									ML3N_ML0P		═╵║┌── ╘╾ ┯┣╸
	Mates with : Display	Port, DP, S	Standard socket (rec	ceptacle) conne	ector.				AUX-	ZX210mD-x mini	DP Test Fixture - Plug
	SMA connectors mates with standard SMA cable assembly , please see ordering information Note: MLxP_MLyN = MLxP when DownStream Wire assembly has 0.025" (0.63mm) SQ pin socket at one end interfacing with ZX202HD or standard post header length 0.23" (5.83mm)										
	Wire as	ssembly has	; 0.025" (0.63mm) S	SQ pin socket a	one end interfacin	ig with ZX202HL	D or standard pos	st header length	0.23" (5.83mm)		
в				-							
	Test procedure:		P-1.4-Test-Procedure		te <u>Paci</u> Item	kage includes: Part numb		Description			
		provides	Display Port, DP, tes	st procedure.	1	ZX210mD-	-	•	DP , HBR3 Test Fixtu	ire TPA-P mini plu	g
					2	ZX000103			of DP 8" (20cm) long		mblies, SMA Jack
1	12				3	or ZX000203 ZXJS1173			Please see ordering y – DP to ZX202DP in		embly
	• <u> </u>	ш			4	ZXJS1173	-DP 1	Wire assembly	y for DP interface cat		· · · ·
	2 2X00010308R-DP 1 or ZX00020308R-DP 1 3 ZXJS1173-05 0 4 ZXJS1173-DP 1 5 ZX200L508-HD 0 6 ZX00WT9NM 0 5 SMA Wrench Torque 5/16" (8mm) 9 NM (8lb-in)									s	
Α					Note				e with 3 rd party modules.		A
\mathbf{r}	Notice										- F
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	Information furnished is believed to be accur Specifications mentioned in this publication a										Cl
			ge manoet notice, ring publication		and providency supplied. Zeba		uuunon200 03 in inC 3				



	1	1	2	1	3	1	4	5	6	
	Product Name:	ZX210mD-x D	isplay Port, DP	1.4 HBR3 , C	TS 1.2b Te	est Fixture TPA-P	TDR mini plu	g Cont's		
F	Test Record: Test rec	ord for the ZX210	D-J TPA-P TDR Di	splay Port Test	Fixture					
		ZXTR-ZX210mD	-J							
	Insertion loss: Very	low insertion lo	ss typical -5.4dl	3 at 8.1GHz				-		
		Insertion loss							Fully assembled	
E			Mated 1.0GHz 1.485GHz 2	Insertion Loss , IL .0GHz 2.97GHz			8.0GHz			
		LxN-LxP AUXN-AUXP	-2.00 -3.00	-2.70 -2.80	-2.90 -3.69	-7.90 -9.20	-10.90	2		
_		All values are dB The listed values are for LxN : L0N, L1N, L2N, I LxP : L0P, L1P, L2P, L AUXN-AUXP: AUXP, 7	.3P	n, S12 s-paramets					ure	
D	S-Parameter files:	The S-Paramete	r was obtained usir	ng mated ZX210)mD-J and ZX	210SmD-J Display F	Port Test Fixture a	as shown		
	above.					igh speed signals :		< e ⁵		
_	All values are d8 The listed values are for fixture pair configuration, S12 s-paramets LN :: LON, LTN, L2N, L3N LSP : LOP, LTP, L2P, L3P AUXN-AUXP, AUXN S-Parameter files: above. The S-Parameter was obtained using mated ZX210mD-J and ZX210SmD-J Display Port Test Fixture as shown Please download the S-Parameter files, .s2p files for all the 10 high speed signals : ZX210mD-ZX210SmD-s-parameter Display Port Connector type (Plug) Pin Labeled Coax Connector type (min Plug - mDP) Pin Labeled Coax Connector type (Plug) Pin Labeled Coax Connector type (Plu									
с	Display Port Connector type (Plug) Pin Labeled Coax Top Bc	Front Connector ttom Standard (Plug)	Display Port Connector typ Pin Labeled Coas	Connector	Connector type (mini Plug - mDP)	J1 Pin Function				
	1 T3_N / R0_P 1 2	ML3N_ML0P 2 GND	1 2 J1.2 HPD	1 2	GND HPD	1 DP_PWR (3.3V) 2 HPD				
	3 T3_P / R0_N 3 4 T2_N / R1_P 5 5 5	ML3P_ML0N 4 ML2N_ML1P GND	3 T0_P / R3_N 4 J1.3 CFG1 5 T0 N / R3 P	4	ML0P_ML3N CONFIGT ML0N_ML3P	3 CFG1 4 CFG2 5 GND			Complete set of DP 8" (200 cable assemblies, SMA typ	
-	6 T2_P / R1_N 7 T1_N / R2_P 7	6 ML2P_ML1N ML1N_ML2P	6 J1.4 CFG2 7	6	CONFIG2 GND				Number ZX00010308-DP	
	9 T1_P / R2_N 9	8 GND ML1P_ML2N 10 ML0N ML3P	8 9 T1_P / R2_N 10 T3 P / R0 N		GND ML1P_ML2N ML3P_ML0N					
	11 11	GND 12 ML0P_ML3N	10 T1_N / R2_P 12 T3_N / R0_P	11	ML31_ML0N ML1N_ML2P ML3N_ML0P	•				
В		CONFIG1 14 CONFIG2	13 14	13 14	GND GND					
	15 AUX+ 15 16 17 AUX- 17	AUX+ 16 GND AUX-	15 T2_P / T1_N 16 AUX+ 17 T2 N / T1 P	16	ML2P_ML1N AUX+				17777 7 777	
		18 HPD GND	17 T2_N / T1_P 18 AUX- 19	17 18 19	ML2ML1+ AUX- GND					
	20 J1.1 VS MLxN / MLyP: MLxN when Upstream(UP	20 DP_PWR (3.3V)	20 J1.1 VS MLxN / MLyP: MLxN when	20 n Upstream(UFP)	DP_PWR			Wire assembly for DP		
	MLyP when Down ZX210D, ZX210mD are UEP, Upstream F ZX210SD, ZX210SmD are DFP. DownStr	acing Port	ZX210D, ZX210mD are UFF		t	-		EDID interface cable assembly, ZXJS1173-	MII TUU	
Α	HPD: Hot Plug Detect	can r aoing FUIL.	ZX210SD, ZX210SmD are I HPD: Hot Plug Detect	Dir, Downouream Fach	יש ד טונ.			2 VJS1173HD Zebax 000	AR RO	
									DF	
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	Specifications mentioned in this publication a									
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