| | 1 | 1 | 2 | 3 | 1 | 4 | 1 | 5 | 1 | 6 | 7 | | 8 |
|---|---|--|--|---|--|---|---|---|---|-----------------------------|--|---|-----------------------------------|
| | Product Name: | ZX180V-LPC FMC | Vita 57.1 breakou | it adapter – passive I | FPGA Mezzanine | Card LPC | | | | | - € • | | |
| F | Product Description: 160 pins Low Pin Fully compatible v | FPGA Mezzanine Count , LPC , housi vith Low Pin Count, | card , FMC , passiv ng both SEAM and s LPC connector inter | re test module meeting SEAF connectors. ON rface. | g VITA 57.1,Vita 5 ILY rows <u>3, 4, 7, 8</u> | 57.4 standard _(C, D, G, H ro | l bus interface. Incl ows) are available | udes 4 rows x 40 pins pe on Vita 57.1 LPC connect | r row totaling tor series. | | $\begin{array}{c} 39 - 40 \\ 37 - 40 \\ 37 - 40 \\ 37 - 40 \\ 33 \\ 33 \\ 33 \\ 33 \\ 33 \\ 33 \\ 34 \\ 31 \\ 30 \\ 30$ | 40 133 135 134 137 137 137 | |
| | Provides prototy utilizing SEAM / S connector housing | pe area as well as EAF(10x40)conn g, however only 4 co | onboard SMD 0402 ector series as well blumns are populate | 2 footprint shunts fo as Vita 57.1, and Vita d, making the LPC co | r accessing any o 57.4 standards. P nnector holding 16 | of the 400 sig lease note - 30 contacts. | jnals. Ideal breako The standard Vita | ut mezzanine card for any 57.1 LPC connector utilize | design s 10x40 | 2.48" (63mm 2.7" (68mr | $\begin{array}{c} 27 \\ 27 \\ 26 \\ 27 \\ 27 \\ 27 \\ 27 \\ 27 \\$ | 80V-L BAX . C هم الم | |
| E | Full access to all listed by Vita 57.1 fill. The GND acce Fully compatible v Fully compatible v | (excluding the GI standard. The Vita ss point is offered b vith Vita 57.1 (FMC vith Vita 57.4 FMC+ | ND signals) Vita 57 57.1 assigned GND by 2 onboard GND te), and Vita 57.4 (with exception of n | 7.1 LPC signals via on signals are not access est points, interfacing FMC+) standard by p on access to signals or | board 0402 SMD f sible individually, th with test equipmen roviding full access a Columns I M 2 | footprint shun hey are conn nt, host and ta s to all Vita 57 7 Y | its. Please see Pag lected to inner GNI arget. 7.1 LPC signals via | je 2 for full list of accessik D planes as well as top/bo a onboard 0402 SMD footp | ole signals as ttom layers print shunts. | n) (| 1514 = 15 15 15 1117 = 1112 1312 1117 = 1112 1 | PC 114 114 114 114 114 114 114 11 | |
| | 1- Mates with any | Samtec Molex HI-S | PEED HI-DENSITY | SEARRAY design co | nnectors. | _ , | | See Page 2,3 for mo | re details | | <u>ROW</u> ୦ ୦ ୦ ୦ ୦ | ton ⁰² | <u>1</u> 22. |
| | 2- Fully compatib 3- Designed in 8 l 4- All Vita 57 1 si | le with 10 rows x 40 ayers PCB stackup | pins per row single | ended or differential p | pairs design config | uration | nt chunte | | | | 4.00" (101mm) 3.3 | (84.5mm) | |
| | 5- All signals (via 6- Improved signa 7- Multiple GND te | 0402 SMD package I integrity and cross est points connecting | e) are pass through talk g directly to inner lay | , enabling user to imp yers GND planes. | lement design cha | inges (cut sig | int shuffs. Inal path), if requir | | SEAF | | | ettom viou | |
| D | 8- Includes both L 9- Matching conne 10- Easy interface | PC MC (SEAM) a ector's 50Ω trace im with single or differ | and CC (SEAF) con pedance on all signa rential scope probe, | nnectors als – Reference plane see page 3 for detail | e impedance 50Ω fo s. | or DC to 10G | Hz bandwidth appl | ications | 23 | | www.ZEBAX.c | om | |
| | Electrical: Insertion los | s >-2dB @8GHz | | | | | SEAM | | | | | : | |
| - | Trace imped PCB Materia Plating: Gold | lance: 50 Ω al : FR4, 8 layers d = 30 μ" (0.76 μm) (| over 50 μ" (1.27 μm |) Ni, all signal layers | | | | Typical Application diagram | Mezzanin (Daughte | e Card, MC, er card) | | | |
| с | Operating To Connector: Onboard | emperature: -55°C I Connector type: SI SI | to +125°C EAM 10x40 BGA EAF 10x40 BGA | | Simplified Block | k diagram | Mezzanine Card (Daughter card) SEAF | GND, see Note | TP SEAM SEAF | | | · | |
| | Connect Connect Connect Connect | or contact : Copper or housing: LCP UL or contacts: COPPE or plating: = 30 µ" ((| Alloy . 94 V0, COLOR: BL ER ALLOY / LEAD F 0.76 μm) Au over 50 | LACK FREE SOLDER) μ" (1.27 μm) Ni | SEAM | 50 Ω 50 Ω 0402 SMD Shunt | ZX180V-LPC | SEAM HOST | 50 Ω ID Shunt ZX180V-LPC | | | | |
| | Mates w Pitch: 0 Shunt: | ith: Any height SEA .05"(1.27mm)pin | AM and SEAF 10x40 to pin pitch |) BGA connectors | Note: 1- All Vita 57.1 signals a 2- All Vita 57.1 reserved 3- Onboard SEAM conne 4- Onboard SEAF conne | are accessible via onboard d GND signals are accessib nector mates with Host's on ector mates with Mezzaning | 0402 SMD shunt landing pads. ole via GND Test points. nboard SEAF connector. le Card's onboard SEAM connector. | Note: 1- All Vita 57.1 signals are accessible via onboar 2- All Vita 57.1 reserved GND signals are access | d 0402 SMD shunt landing pads. ible via GND Test points. | 7/400/4 | | | |
| в | Package Plating: | e: 0402 SMD standa Gold = 30 μ" (0.76 μ | rd footprint μm) over 50 μ" (1.27 | ' μm) Ni | Typical signal 0402 SMD | connection: | | Compliance: | | Part numbe | PC package includes: er Quantity Description | kout adapter | |
| | Application: FMC VI characterization, o Emulation, Xilinx I | FA 57.1 , Vita 57.4 F qualification , manufa ntel custom FPGA s | MC+ , daughter car acturing loopback te | rd Bringup, testing, est. t solutions. | Break signal p | path: - | | Robin Centiled Rohs - Lead Free EU RohS2 UL E111594 document Fl V- Vehicle Directive (Direct | tive 2000/EC) | ZX00BC2 ZX0002S | PH30 0 30AWG Bare Copp RF4 0 High Frequency set | er wire to pin header wire ni-rigid SMA to bare wire | e assembly coax cable assembly |
| - | Interface testing o | f daughter board to | host, modular desig | n evaluations. | | | | European Union Directive (20 Halogen Free per IEC-61249- RoHs Directive 2011/65/EU WEEE Directive (2012/12/EU | 03/11/EC) 2.21:2003 | | ZEBAX FIGURES ARE NOTS COMPLETE AND LECTION STATES AND A CRUZ, CAUS.A (8) | DLOGIES 31) 2 2 2 - 0717 | u. |
| A | | | | | | | | Certificate of Compliance for F Certificate of Compliance for / Certificate of Compliance for (Certificate REACH SVHC | Radioactive substance Asbestos Ozone Depleting Subs | tances, ODS | PECIFIED DIMENSIONS A RE INCHES (MM). ROHS COMPLIANT | SSEMBLY DRA TEM: ZX180V-LPC | AWING |
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| | Information furnished is believed to be accura Specifications mentioned in this publication ar | te and reliable. However, Zebax e subject to change without notic | Technologies assumes no response. This publication replaces all ot | insibility for the consequences of use ther information previously supplied. | of such information or for any Zebax Technologies products | infringement of patent are not authorized as i | its or other rights of third parties in life support devices or system | s that may result from its use. ns. | | с | HECKED: M. MARINA SOF | N: F | REVISSION: 1.0 |
| Ľ | | | 0 | 2 | | 4 | | 5 | | 6 | 7 | | |



| | 1 | 1 | 2 | 3 | 4 | 1 | 5 | | |
|---|--------------|-------------------------------|---|---|--------------------|--------------------|--------------------------------------|-----------------|-----------------------|
| | Product Name | e: Cont | 's ZX180V-LPC FMC Vita 57. | 1 breakout adapter – passive Fl | PGA Mezzanine Card | LPC | | | |
| | Mates with : | Mechanically o | compatible with HPC connector | s, ONLY 4 listed signal rows are a | available. | | | | |
| - | | Any and all FN SEAM SADL S | IC LPC VITA 57.1 compliant de BEAMP SEAR SEAMI SEAC FN | AC LPC | ZX180V-LPC FMC b | reakout adapter ma | tes with the follov 57 Connectors | ving Samtec Mol | ex SEARAY™ VITA |
| | | SEAF-040-08.0 SEAFP-40 SEA | 0-L-10-2-A SEAF-040-08-L-10 AMP-040 SEAMI-040 SEAR-04 ac Molex EMC connectors liste | -2-A -0-10-10- SEAM-040 d. table below: | Molex PN | Samtec PN | VITA PN | Description | Mated Stack Height |
| - | | All listed Salitie | | a, table below. | 45971-4307 | ASP-127796-01 | CC-LPC-10L | female | |
| | | | | | 45971-4305 | ASP-134603-01 | CC-LPC-10 | female | |
| | | | | | 45970-4107 | ASP-134605-01 | MC-LPC-8.5L | male | 8.5 mm |
| | | | | | 45970-4105 | ASP-134606-01 | MC-LPC-8.5 | male | 8.5 mm |
| - | | | | | 45970-4307 | ASP-127797-01 | MC-LPC-10L | male | 10 mm |

45970-4305 ASP-134604-01 MC-LPC-10

male

10 mm

Ground: All The Vita 57.1 GND reserved signals on the ZX180V-LPC are connected to the module inner GND planes and top & bottom GND fills. The GND access point is offered by 2 onboard GND test points interfacing with test equipment, host and target.

Access signals: ZX180V-LPC provides access to all Vita 57.1 signals as well as Vita 57.4 (with exception of no access to signals on Columns L, M, Z, Y) via onboard 0402 SMD footprint package. Table below lists the Vita 57.1 signals, to be used as reference accessing ZX180V-LPC FMC Vita 57.1 FMC test module breakout adapter.

| D | Pin | Vita 57.1 - LPC | | | | | | | | | |
|-----|-----|-----------------|----|-------------|------------|----|----|---------------|-----------|--------|----|
| | | K J H | | G | F | E | D | С | В | Α | |
| | 1 | NC | NC | VREF_A_M2C | GND | NC | NC | PG_C2M | GND | NC | NC |
| - 1 | 2 | NC | NC | PRSNT_M2C_L | CLK1_M2C_P | NC | NC | GND | DP0_C2M_P | NC | NC |
| | 3 | NC | NC | GND | CLK1 M2C N | NC | NC | GND | DP0 C2M N | NC | NC |
| | 4 | NC | NC | CLK0_M2C_P | GND | NC | NC | GBTCLK0_M2C_P | GND | NC | NC |
| | 5 | NC | NC | CLK0_M2C_N | GND | NC | NC | GBTCLK0_M2C_N | GND | NC | NC |
| - 1 | 6 | NC | NC | GND | LA00_P_CC | NC | NC | GND | DP0_M2C_P | NC | NC |
| | 7 | NC | NC | LA02_P | LA00_N_CC | NC | NC | GND | DP0_M2C_N | C_N NC | |
| | 8 | NC | NC | LA02_N | GND | NC | NC | LA01_P_CC | GND | NC | NC |
| | 9 | NC | NC | GND | LA03_P | NC | NC | LA01_N_CC | GND | NC | NC |
| | 10 | NC | NC | LA04_P | LA03_N | NC | NC | GND | LA06_P | NC | NC |
| | 11 | NC | NC | LA04_N | GND | NC | NC | LA05_P | LA06_N | NC | NC |
| | 12 | NC | NC | GND | LA08_P | NC | NC | LA05_N | GND | NC | NC |
| | 13 | NC | NC | LA07_P | LA08_N | NC | NC | GND | GND | NC | NC |
| | 14 | NC | NC | LA07_N | GND | NC | NC | LA09_P | LA10_P | NC | NC |
| | 15 | NC | NC | GND | LA12_P | NC | NC | LA09_N | LA10_N | NC | NC |
| | 16 | NC | NC | LA11_P | LA12_N | NC | NC | GND | GND | NC | NC |
| | 17 | NC | NC | LA11_N | GND | NC | NC | LA13_P | GND | NC | NC |
| | 18 | NC | NC | GND | LA16_P | NC | NC | LA13_N | LA14_P | NC | NC |
| | 19 | NC | NC | LA15_P | LA16_N | NC | NC | GND | LA14_N | NC | NC |
| | 20 | NC | NC | LA15_N | GND | NC | NC | LA17_P_CC | GND | NC | NC |
| _ | 21 | NC | NC | GND | LA20_P | NC | NC | LA17_N_CC | GND | NC | NC |
| | 22 | NC | NC | LA19_P | LA20_N | NC | NC | GND | LA18_P_CC | NC | NC |
| | 23 | NC | NC | LA19_N | GND | NC | NC | LA23_P | LA18_N_CC | NC | NC |
| | 24 | NC | NC | GND | LA22_P | NC | NC | LA23_N | GND | NC | NC |
| | 25 | NC | NC | LA21_P | LA22_N | NC | NC | GND | GND | NC | NC |
| | 26 | NC | NC | LA21_N | GND | NC | NC | LA26_P | LA27_P | NC | NC |
| | 27 | NC | NC | GND | LA25_P | NC | NC | LA26_N | LA27_N | NC | NC |
| в | 28 | NC | NC | LA24_P | LA25_N | NC | NC | GND | GND | NC | NC |
| - 1 | 29 | NC | NC | LA24_N | GND | NC | NC | TCK | GND | NC | NC |
| | 30 | NC | NC | GND | LA29_P | NC | NC | TDI | SCL | NC | NC |
| | 31 | NC | NC | LA28_P | LA29_N | NC | NC | TDO | SDA | NC | NC |
| | 32 | NC | NC | LA28_N | GND | NC | NC | 3P3VAUX | GND | NC | NC |
| | 33 | NC | NC | GND | LA31_P | NC | NC | TMS | GND | NC | NC |
| | 34 | NC | NC | LA30_P | LA31_N | NC | NC | TRST_L | GA0 | NC | NC |
| | 35 | NC | NC | LA30_N | GND | NC | NC | GA1 | 12P0V | NC | NC |
| - | 36 | NC | NC | GND | LA33_P | NC | NC | 3P3V | GND | NC | NC |
| | 37 | NC | NC | LA32_P | LA33_N | NC | NC | GND | 12P0V | NC | NC |
| | 38 | NC | NC | LA32_N | GND | NC | NC | 3P3V | GND | NC | NC |
| | 39 | NC | NC | GND | VADJ | NC | NC | GND | 3P3V | NC | NC |
| | 40 | NC | NC | VADJ | GND | NC | NC | 3P3V | GND | NC | NC |

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ZX180V-LPC 0402 SMD shunt footprints grid matrix



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|--|---|-------------------------|---|--|--|--|--|
| PECIFIED DIMENSION | ASSEMBLY D | ASSEMBLY DRAWING | | | | | |
| RE INCHES (MM). DHS COMPLIANT | ITEM: ZX180V-L | ITEM: ZX180V-LPC | | | | | |
| ESCRIPTION: F | MC VITA 57.1 breakout PGA mezzanine card L | adapter – passive PC | | | | | |
| ECKED: | DRAWN: | REVISSION: 1.0 | | | | | |
| M. MARINA | SONYA | SHEET: 2 OF 3 | | | | | |
| 7 | | 8 | | | | | |

| | 1 | 1 | 2 | 1 | 3 | | 4 | 1 | 5 | | 6 |
|---|--|---|---|---|---|---|--|---|---------------------|--|---|
| | Product Name: | Cont's Z | X180V-LPC FMC V | ita 57.1 break | out adapter – pass | ive FPGA Mez | zanine Card LPC | | Kovsight F | Probe Head | accassorias |
| F | Access: ZX18 footprint shunts function genera | 0V-LPC offers 5. The following ator, Network A | all Vita 57.1 signal gs are few recomme Analyzer, power sup | ls (excluding the second se | the GND signals) terfacing ZX180V-L s load and more. | accessible via PC with test & | onboard standard 04 measurement equip | 402 SMD ment , scope, | | robe Heads II | nfiniiMax II Probe Heads |
| | 1- Using 32AW 2- Using high fi part of the ca | G solid copper requency semi able assembly | r wire with pin head -rigid coax cable as may be interfaced v | er, ZX00BC2PI sembly , ZX00 with any test ec | H30 or similar to inte 02SRF4 , to solder quipment for purpos | erface to any s on any signal o e of signal injed | cope probe / test equ on ZX180V-LPC. The ction or interface with | uipment e SMA connector h test equipment. | MX010 | J3A Bullet Adapter → Diff. Solder-In | N5380B SMA |
| _ | Loopback test: ZX any 32AWG so requirement, er | 180V-LPC ma lid copper wire nsuring solid te | y be configured for to inner connect a est & measurement | manufacturing ny connection o method for pre | , development , or c combination. The Z -bringup, bringup, q | qualification loc K180V-LPC en Jualification and | pback test configura ables any design loo d manufacturing phas | ation. Using opback test se of any design. | N2839A D | iff. Browser | N5425B ZIF |
| - | Typical Application 1- Uti 2- En | ZX180V-L new appro lizing single or | PC is designed for bach in usage of bre differential scope p | purpose of tes eakout adapters probe for purpos | t and debugging at s by : se of test & measur signal by means of | full connector's ements | bandwidth. It provid | des | MX0105A | Diff. SMA | |
| | an 3- Lo | d assigned to r opback test & i | new location by jum measurement, ena | per wires. bling software | development & testi | ng. | , where any signarm | | | | |
| | Scope Probe wire I | nstallation: | | | | | | | Tektronix | P6243 scope | e probe |
| D | 1- It is 2- In ref 3- Bo | s recommende order to avoid erence. The Z th Keysight as | ed to keep the probe ground loop probler X180V-LPC provide well as Tektronix o | e wire length at ms, please use es two GND tes ffer variety of s | 0.5" (1.2cm) long. the shortest Ground t points for referenc ingle ended as well | d probe wire in e. as differential | terfacing to the near probes along with the | est GND eir accessories, | | | Televoux P6243 **** **** **** **** **** **** |
| | 4- Ple | a) Keysigh probe, N b) Tektron of TDP ease follow you | nt differential probe N5426A ZIF Tip, N2 ix offers several sin 7000 series and mo ur vendor's guideling | or similar N27 2884A Fine Win 1gle-ended as v ore e in installation | 795A, N2796A, 1168 e ZIF Tip and more vell as differential p of probe wires & ac | 3V, 1134B alon – See the figur robes such as : ccessories. | ng with E2677B differ re "probe head acces re 6245, P6248, P62 | rential Solder-in ssories". 247, P6246 or any | | | |
| | Signal Access & re | -route: | | | | | | | | ~ | |
| | Re-rc new l | ocation. | al on ZX180V-LPC | may be implen | nented by cutting the | e designated 04 | 402 SMD shunt and | I re-routing to | | | |
| _ | Accessories: The f | ollowing acces | sories compliment | ZX180V-LPC fo | or testing purpose. | | | | 7/000000 | | |
| | ZX00BC2PH30 for scope probe |) 30AWG Bar e interface. | e Copper wire to pi | n header wire a | assembly – It can be | e easily soldere | ed to any pads on the | e ZX180V-LPC | ZX00BC2F | -H30 | |
| 3 | ZX0002SRF4 the cable asser ZX0002SRF4 i | High Frequen mbly is expose s excellent for | cy SMA to bare wire d copper. It can eas characterization an | e semi-rigid coa sily soldered to d performance | ax cable assembly - any pads on ZX180 test qualification. | - It is semi-rigi)V-LPC. With Ii | d coax cable asseminsertion loss of >-0. | bly where case of 5dB, | Z | X0002SRF4 | |
| | | | | | | | | | | | Note 4 |
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| | | | | | | | | | | | SP AR RC |
| A | Notice | | | | | | | | | | |
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| N5426A ZIF Tip | | | |
| N2884A Fine Wire ZIF Tip | | | E |
| N5451A Long-Wired ZIF Tip (7 mm) | | | E |
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| PECIFIED DIMENSIONS | ASSEMBLY DR | AWING | |
| OHS COMPLIANT | ITEM: ZX180V-LF | PC . | A |
| ESCRIPTION: FMC | VITA 57.1 breakout ad | apter – ard LPC | |
| IECKED: | DRAWN: | REVISSION: 1.0 | |
| M. MARINA | SONYA | SHEET 3 OF 3 | |