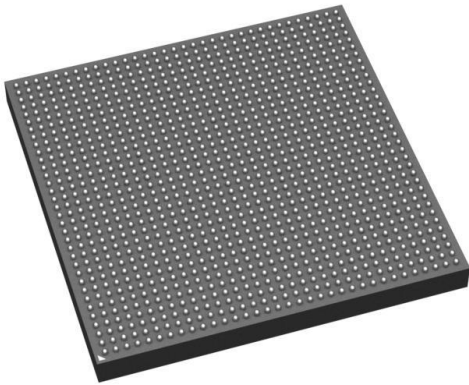


XCZU55DR-L2FFVE1156I Datasheet

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XCZU55DR-L2FFVE1156I

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| | |
|------------------------------|---|
| DiGi Electronics Part Number | XCZU55DR-L2FFVE1156I-DG |
| Manufacturer | AMD |
| Manufacturer Product Number | XCZU55DR-L2FFVE1156I |
| Description | IC ZUP RFSOC A53 FPGA LP 1156BGA |
| Detailed Description | Quad ARM® Cortex®-A53 MPCore™ with CoreSight™, Dual ARM®Cortex™-R5 with CoreSight™ System On Chip (SOC) IC Zynq® UltraScale+™ RFSoc DR Zynq® UltraScale+™ RFSoc 533MHz, 1.3GHz 1156-FCBGA (35x35) |



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DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

XCZU55DR-L2FFVE1156I

Series:

Zynq® UltraScale+™ RFSoc DR

Architecture:

MPU, FPGA

Flash Size:

-

Peripherals:

DDR, DMA, PCIe, WDT

Speed:

533MHz, 1.3GHz

Operating Temperature:

-40°C ~ 100°C (Tj)

Supplier Device Package:

1156-FCBGA (35x35)

Manufacturer:

AMD

Product Status:

Active

Core Processor:

Quad ARM® Cortex®-A53 MPCore™ with CoreSight™, Dual ARM®Cortex™-R5 w

RAM Size:

-

Connectivity:

CANbus, EBI/EMI, Ethernet, I2C, MMC/SD/SDIO, SPI, UART/USART, USB OTG

Primary Attributes:

Zynq® UltraScale+™ RFSoc

Package / Case:

1156-BBGA, FCBGA

Number of I/O:

-

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

Moisture Sensitivity Level (MSL):

4 (72 Hours)



Additional Nanya Substrate Supplier for UltraScale & UltraScale+ Monolithic Packages

XCN20014 (v1.4) May 10, 2021

Product Change Notice

Overview

The purpose of this notification is to announce Xilinx® will include Nanya as additional substrate supplier for Xilinx Kintex® UltraScale™, Kintex® UltraScale+™, Virtex® UltraScale+™ and Zynq® UltraScale+™ commercial / industrial “XC” and automotive “XA” grade devices. Defense-grade “XQ” device-packages are not affected by this PCN.

Description

Due to recent supply chain continuity and force majeure, Xilinx has completed package qualification and will be shipping Nanya substrate for monolithic packages, as additional substrate for Xilinx Kintex UltraScale, Kintex UltraScale+, Virtex UltraScale+ and Zynq UltraScale+ commercial / industrial “XC” and automotive “XA” grade devices. Nanya substrate has been used for more than 20 years in industry and has been considered a stable substrate supplier. This additional supplier will adhere to the same performance, quality and reliability specifications that apply to all product families proven through extensive qualification and testing. There are no changes to form, fit, function, or reliability.

Products Affected

This change affects all speeds and temperature grades such as commercial / industrial “XC” and automotive “XA” in all speed grade devices (refer to tables below). Any associated specification control document (SCD) versions of the standard part numbers are also affected.

Table 1: Phase 1 Products Affected (Body size smaller or equal than 27x27mm)

Kintex UltraScale+

| Device | Package |
|--------|---------|
| XCKU3P | FFVA676 |
| XCKU3P | FFVB676 |
| XCKU3P | SFVB784 |
| XCKU5P | FFVA676 |
| XCKU5P | FFVB676 |
| XCKU5P | SFVB784 |
| | |
| | |
| | |

Zynq UltraScale+

| Device | Package |
|---------|---------|
| XCZU2CG | SBVA484 |
| XCZU2CG | SFVA625 |
| XCZU2CG | SFVC784 |
| XCZU2EG | SBVA484 |
| XCZU2EG | SFVA625 |
| XCZU2EG | SFVC784 |
| XCZU3CG | SBVA484 |
| XCZU3CG | SFVA625 |
| XCZU3CG | SFVC784 |

| Device | Package |
|---------|---------|
| XCZU3EG | SBVA484 |
| XCZU3EG | SFVA625 |
| XCZU3EG | SFVC784 |
| XCZU4CG | SFVC784 |
| XCZU4EG | SFVC784 |
| XCZU4EV | SFVC784 |
| XCZU5CG | SFVC784 |
| XCZU5EG | SFVC784 |
| XCZU5EV | SFVC784 |

Table 2: Phase 2 Products Affected (Body size larger than 27x27mm)**Kintex UltraScale+**

| Device | Package |
|---------|----------|
| XCKU3P | FFVD900 |
| XCKU5P | FFVD900 |
| XCKU9P | FFVE900 |
| XCKU11P | FFVA1156 |
| XCKU11P | FFVD900 |
| XCKU11P | FFVE1517 |
| XCKU13P | FFVE900 |
| XCKU15P | FFVA1156 |
| XCKU15P | FFVA1760 |
| XCKU15P | FFVE1517 |
| XCKU15P | FFVE1760 |
| XCKU19P | FFVB2104 |
| XCKU19P | FFVJ1760 |

Virtex UltraScale+

| Device | Package |
|---------|----------|
| XCVU3P | FFVC1517 |
| XCVU23P | FSVJ1760 |
| XCVU23P | VSVA1365 |

Zynq UltraScale+

| Device | Package |
|---------|----------|
| XCZU4CG | FBVB900 |
| XCZU4EG | FBVB900 |
| XCZU4EV | FBVB900 |
| XCZU5CG | FBVB900 |
| XCZU5EG | FBVB900 |
| XCZU5EV | FBVB900 |
| XCZU6CG | FFVC900 |
| XCZU6CG | FFVB1156 |
| XCZU6EG | FFVC900 |
| XCZU6EG | FFVB1156 |
| XCZU7CG | FBVB900 |
| XCZU7CG | FFVF1517 |
| XCZU7CG | FFVC1156 |

Zynq UltraScale+ (Con't)

| Device | Package |
|----------|----------|
| XCZU7EG | FBVB900 |
| XCZU7EG | FFVC1156 |
| XCZU7EG | FFVF1517 |
| XCZU7EV | FBVB900 |
| XCZU7EV | FFVC1156 |
| XCZU7EV | FFVF1517 |
| XCZU9CG | FFVC900 |
| XCZU9CG | FFVB1156 |
| XCZU9EG | FFVC900 |
| XCZU9EG | FFVB1156 |
| XCZU11EG | FFVC1156 |
| XCZU11EG | FFVC1760 |
| XCZU11EG | FFVF1517 |
| XCZU11EG | FFVB1517 |
| XCZU15EG | FFVC900 |
| XCZU15EG | FFVB1156 |
| XCZU17EG | FFVB1517 |
| XCZU17EG | FFVC1760 |
| XCZU17EG | FFVD1760 |
| XCZU17EG | FFVE1924 |
| XCZU19EG | FFVB1517 |
| XCZU19EG | FFVC1760 |
| XCZU19EG | FFVE1924 |
| XCZU19EG | FFVD1760 |
| XCZU21DR | FFVD1156 |
| XCZU21DR | FSVD1156 |
| XCZU25DR | FFVE1156 |
| XCZU25DR | FFVG1517 |
| XCZU25DR | FSVE1156 |
| XCZU25DR | FSVG1517 |
| XCZU27DR | FFVE1156 |
| XCZU27DR | FFVG1517 |
| XCZU27DR | FSVE1156 |
| XCZU27DR | FSVG1517 |
| XCZU28DR | FFVE1156 |
| XCZU28DR | FFVG1517 |
| XCZU28DR | FSVG1517 |

Zynq UltraScale+ (Con't)

| Device | Package |
|----------|----------|
| XCZU28DR | FSVE1156 |
| XCZU29DR | FFVF1760 |
| XCZU29DR | FSVF1760 |
| XCZU39DR | FFVF1760 |
| XCZU39DR | FSVF1760 |
| XCZU42DR | FFVE1156 |
| XCZU42DR | FSVE1156 |
| XCZU43DR | FFVE1156 |
| XCZU43DR | FFVG1517 |
| XCZU43DR | FSVE1156 |
| XCZU43DR | FSVG1517 |
| XCZU46DR | FFVH1760 |
| XCZU46DR | FSVH1760 |
| XCZU47DR | FFVE1156 |
| XCZU47DR | FFVG1517 |
| XCZU47DR | FSVE1156 |
| XCZU47DR | FSVG1517 |
| XCZU48DR | FFVE1156 |
| XCZU48DR | FFVG1517 |
| XCZU48DR | FSVE1156 |
| XCZU48DR | FSVG1517 |
| XCZU49DR | FFVF1760 |
| XCZU49DR | FSVF1760 |
| XCZU55DR | FFVE1156 |
| XCZU55DR | FSVE1156 |
| XCZU57DR | FFVE1156 |
| XCZU57DR | FSVE1156 |
| XCZU58DR | FFVE1156 |
| XCZU58DR | FFVG1517 |
| XCZU58DR | FSVE1156 |
| XCZU58DR | FSVG1517 |
| XCZU59DR | FFVF1760 |
| XCZU59DR | FSVF1760 |
| XCZU65DR | FFVE1156 |
| XCZU65DR | FSVE1156 |
| XCZU67DR | FFVE1156 |
| XCZU67DR | FSVE1156 |

**Table 3: Phase 3 Products Affected (XA)****Zynq UltraScale+**

| Device | Package |
|---------|---------|
| XAZU2EG | SBVA484 |
| XAZU2EG | SFVA625 |
| XAZU2EG | SFVC784 |
| XAZU3EG | SBVA484 |
| XAZU3EG | SFVA625 |
| XAZU3EG | SFVC784 |

| Device | Package |
|----------|----------|
| XAZU4EV | SFVC784 |
| XAZU5EV | SFVC784 |
| XAZU7EV | FBVB900 |
| XAZU11EG | FFVF1517 |
| | |
| | |

Table 4: Phase 4 Products Affected (20nm XC)**Kintex UltraScale**

| Device | Package |
|---------|----------|
| XCKU035 | FBVA676 |
| XCKU040 | FBVA676 |
| XCKU025 | FFVA1156 |
| XCKU035 | FFVA1156 |
| XCKU040 | FFVA1156 |
| XCKU060 | FFVA1156 |

Key Dates and Ordering Information

Xilinx will begin to ship products with Nanya substrate as listed in the phases described below:

Phase 1: Starting by **Feb 1st, 2021** for Xilinx UltraScale+ devices listed in [Table 1](#)

Phase 2: Starting by **May 1st, 2021** for Xilinx UltraScale+ devices listed in [Table 2](#)

Phase 3: Starting by **June 20th, 2021** for Xilinx UltraScale+ devices listed in [Table 3](#)

Phase 4: Starting by **June 20th, 2021** for Xilinx UltraScale devices listed in [Table 4](#)

Qualification Data

Qualification data is available upon request.

Required Action

Acknowledgement required within 30 days of receipt of this notice. No feedback or response of the PCN within 30 days constitutes acceptance of the change. For additional information or questions, please contact your Xilinx sales representative.

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Revision History

The following table shows the revision history for this document.

| Date | Version | Revision |
|------------|---------|--|
| 11/30/2020 | 1.0 | Initial release. |
| 11/30/2020 | 1.1 | Updated Table 1 . |
| 12/14/2020 | 1.2 | Updated Table 1 and Table 2 . |
| 03/22/2021 | 1.3 | Added Table 3 with XA products. Updated Phase 2 dates. |
| 05/10/2021 | 1.4 | Added Table 4 with 20nm XC products. |

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