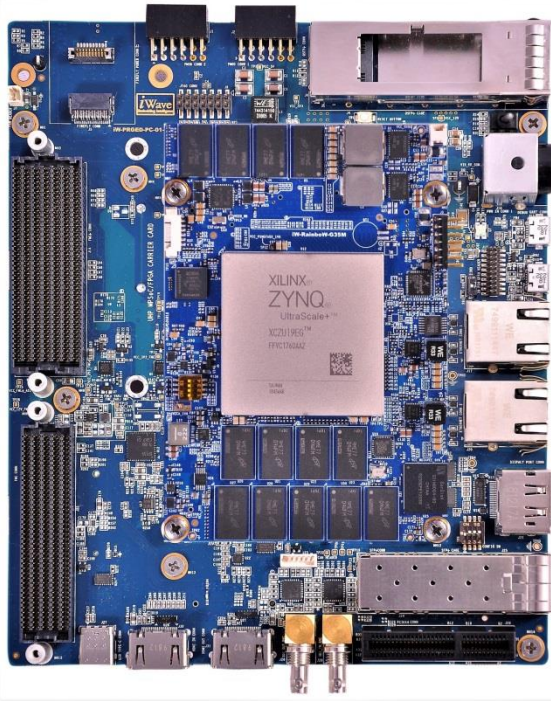


Development Platform iW-RainboW G35D

Zynq Ultrascale+ MPSoC Development kit



iWave's Zynq Ultrascale+ SoC Development kit comprises of Xilinx's Ultrascale+ MPSoC SOM and Ultra-High-Performance carrier card. The SOM is equipped with 64-bit 4GB DDR4 RAM with ECC for PS & 64-bit 4GB Dual DDR4 RAM for PL. The Zynq Ultrascale+ MPSoC development kit carrier board supports required set of features like FMC+ (HPC), FMC (HPC), FireFly, QSFP, SFP+, 12-Pin Pmod, and HDMI- IN/OUT connectors to validate Zynq Ultrascale+ MPSoC high-speed PL interfaces and PCIe x4, SATA, USB-Type-C, Display Port, Gigabit Ethernet and SDI Video IN/OUT on-board connectors to validate the Zynq Ultrascale+ MPSoC high-speed PS interfaces.

Applications: Artificial intelligence, Broadcast audio/video, HPC, Desegregated computing, 5G wireless, 100G connectivity

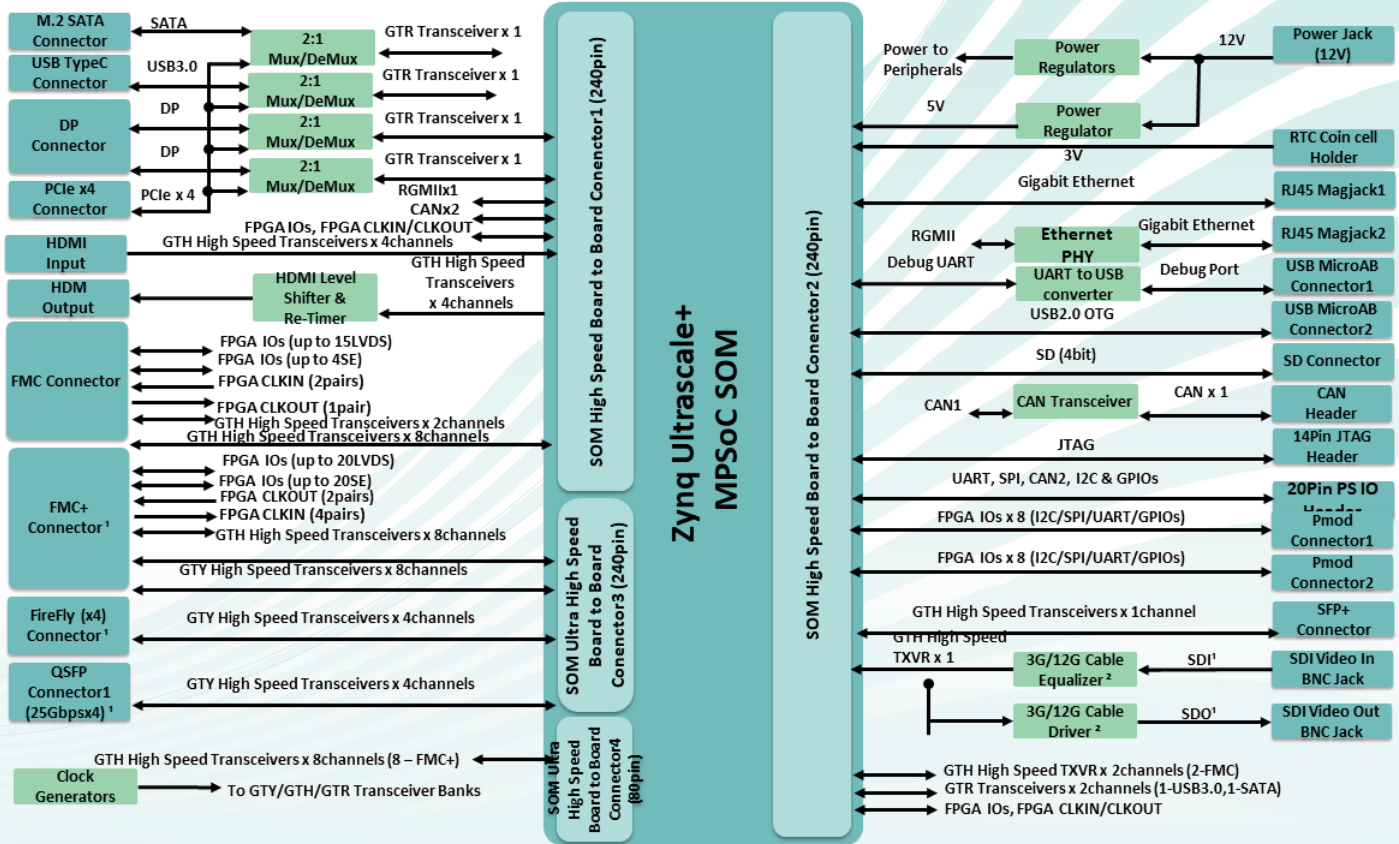
iW-RainboW G35D HIGHLIGHTS

- Zynq Ultrascale+ MPSoC with 1143K Logic Cells
- PS -GTR Transceivers x 4 @ 6Gbps
- PL -GTH Transceivers x 32 @ 16.3Gbps
- PL -GTY Transceivers x 16 @ 32.735Gbps
- FireFly Connector
- FMC+ HPC Connector
- FMC HPC Connector
- QSFP & SFP+ Connector
- Dual 12 -Bit Pmod Connectors
- HDMI - IN/OUT
- SDI Video IN/OUT
- Dual 1G Ethernet

SPECIFICATIONS

Zynq Ultrascale+ MPSoC SOM:	GPIOHeaderx1
Zynq Ultrascale+(ZCU19EG) MPSoC(-1speed) @ 1200MHz	RTC Holderx1
PMIC with RTC	JTAG Connectorx1
8GB eMMC Flash (for boot code)	PL - Interface
4GB DDR4 RAM for PS	Pmod Connectorx2
4GB Dual DDR4 RAM for PL	SFP+ Connectorx1
PS-GTR Transceivers x4 @ 6Gbps	QSFP+ Connectorx1
PL-GTH Transceivers x32 @ 16.3Gbps	SDI Video IN Connectorx1
PL-GTY Transceivers x16 @ 32.735Gbps	SDI Video OUT Connectorx1
Gigabit Ethernet PHY	HDMI IN Connectorx1
USB2.0 Transceiver	HDMI OUT Connectorx1
Ultra-High-Performance Carrier Board:	FMC+ Connectorx1
PS - Interface	FMC Connectorx1
10/100/1000 Ethernetx2	FireFly Connectorx1
CAN Headerx1	Power Supply
Debug Consolex1	4-Pin DIN Power Connector(12V)x1
SD Connectorx1	Switches
USB2.0 OTG Connectorx1	Reset Buttonx1
M.2 SATA Connectorx1	Power ON/OFF Switchx1
DP Connectorx1	PS-GTR Lane Selection Switch x1
USB-Type-C Connectorx1	Operating System
PCIe4 Connectorx1	Linux

ZU19/17/11 Zynq Ultrascale+ MPSoC Development Kit– BLOCK DIAGRAM



Note:
¹ These interfaces can be used only with ZU11/17/19EG based SOM
² By default, 3G SDI IN/OUT is supported. Optionally, 12G SDI IN/OUT can be supported on request.

OS SUPPORT

Linux 4.41.0

DELIVERABLES

Zynq Ultrascale+ MPSoC Development kit
 Linux 4.14.0 BSP
 12V AC-DC Adapter
 HW/SW user manuals
 Quick Start Guide

Optional KITS/Modules

Pmod Modules

CUSTOM DEVELOPMENT

BSP Development/OS Porting
 Custom SOM/Carrier Development
 Custom Application/GUI Development
 Design Review and Support

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*Optional items not included in standard deliverables

Note: iWave reserves the right to change these specifications without notice as part of iWave's continuous effort to meet the best in breed specification. The registered trademarks are proprietary of their respective owners.

Zynq Ultrascale+ MPSoC Development Kit

The device can be ordered online from the iWave website
<http://www.iwavesystems.com/webforms>

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