



Development Platform iW-RainboW G35D

Zyng Ultrascale+ MPSoC Development kit



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



iW-RainboW G35D **HIGHLIGHTS**

Zyng 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

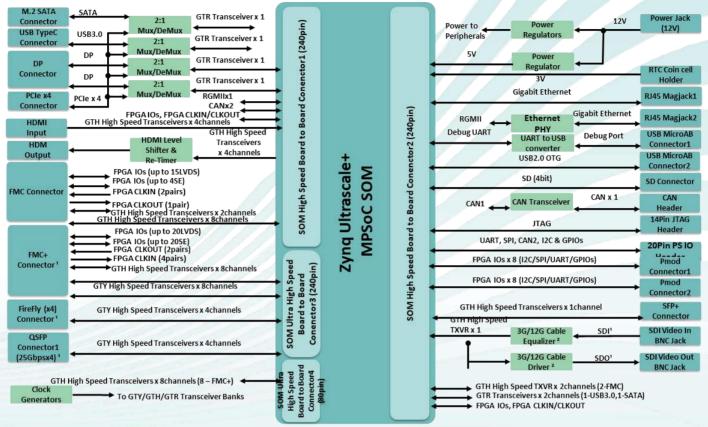
SPECIFICATIONS

Zynq Ultrascale+ MPSoCSOM:	GPIOHeaderx1.
ZynqUltrascale+(ZCU19EG)MPSOC(-1speed)@1200MHz	RTCHolderx1
PMICwith RTC	JTAGConnectorx1
8GBeMMCFlash (forbootcode)	PL-Interface
4GBDDR4RAMfor PS	Pmod Connectorx2
4GBDual DDR4RAMforPL	SFP+Connectorx1
PS-GTRTransœiversx4@6Gbps	QSPP+Connectorx1.
PL-GTHTransceiversx32@16.3Gbps	SDIVideo INConnectorx1.
PL-GTYTransceiversx16@32.735Gbps	SDIVideo OUT Connectors1
Gigabit Ethemet PHY	HDIVIINConnectors1
USB2.0 Transceiver	HDMIOUTConnectorx1
Ultra-High-Performance Carrier Board:	FMC+Connectorx1
PS-Interface	FMC Connectorx1.
10/100/1000Ethemetx2	FireFly Connectorx1.
CANHeaderx1.	PowerSupply
Debug Console x1.	4-Pin DINPower Connector (12V) x1
SDConnectorx1	Switches
USB2.00TGConnectorx1	Reset Buttonx1
M.2SATAConnectorx1	PowerON/OFFSwitchx1
DPConnectorx1	PS-GTRLaneSelection Switch x1.
USB-Type-CConnectorx1	Operating System
PClex4Connectorx1	Linux





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



Note

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

iWave Systems Technologies, established in 1999 focuses on Product Engineering Services involving Embedded Hardware, Software & FPGA. The Company designs and develops cutting edge products and solutions. iWave has been innovator in development of highly integrated, high performance, low power and low cost System On Modules and Development Platforms. iWave's expertise brought out multiple SOMs based on ARM, NXP, Intel Atom, Marvell and TI Processors.

iWave Systems has won the confidence of its customers over the years by being a reliable partner in developing innovative products. Our engineers combine outstanding system design experience to deliver Quality Solutions. iWave specializes across Industrial, Automotive and Medical domains. We support our customers by being time efficient, which in turn helps our customers accelerate time to market their products. iWave is windows embedded Silver Partner and winner of the Partner Excellence Award.

*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 specication. The registered trademarks are proprietary of their respective owners.

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

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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.