

Miami MPSoC

The Miami MPSoC System on Module is based on Xilinx 16nm Ultrascale+ FPGA technology. The module combines a high performance and high-density programmable logic with dedicated hardener IP blocks, such as DSP cores, memory controllers and PCIe endpoints. With their small footprint and high reliability, they form an excellent platform for high bandwidth data processing applications.



Intelligence for Industry

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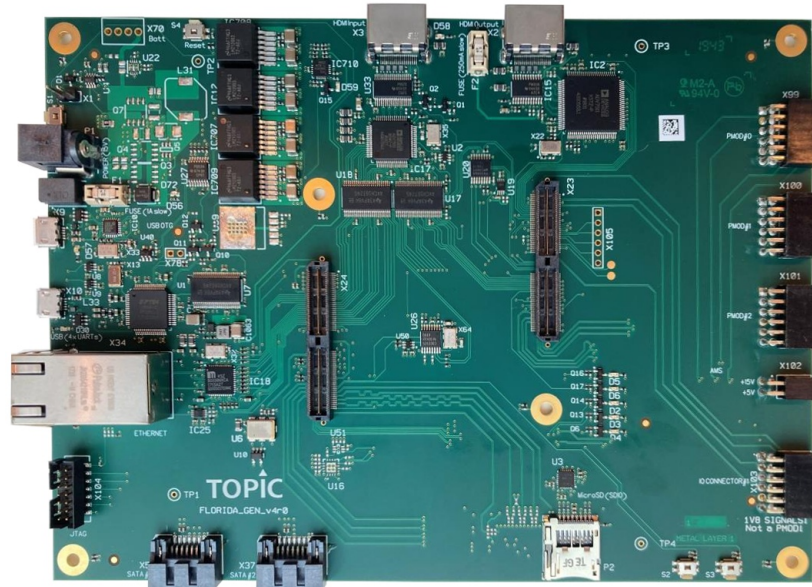
www.aries-embedded.com
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- Miami MPSoC UltraSCALE+
 - XCZU6CG/EG
 - XCZU9CG/EG
 - XCZU15EG
- 2 GB LPDDR4 32bit
- 8 GB eMMC
- 64 MB Quad SP
- SD-card
- ARMCortex-A53 MPCore up to 1.5GHz Quad-core Application Processor Core
- Processor-Peripherals :
 - 2xUART
 - 2xI2C
 - 2xUSB 2.0
 - 4xGPIO 32b
 - 2xUSB 3.0
 - DisplayPort
 - 4xTri-mode Gigabit Ether
 - 2xCAN 2.0B
 - 2xSPI
 - 2xSD/SDIO
 - 4xPCIe GEN2
 - SATA 3.1
- Clock distribution
- size : 70 x 68.4 mm
- single 3.3V/4A supply
- 2 x 120 pins Samtec board-to-board interconnect

Florida-GEN

Florida-GEN represents the flexible Evaluation and Prototyping Platform for working with the Miami MPSoC System on Module.

The Miami family of SoM provides the best in class platform Florida-GEN for balancing both performance and power, making it a perfect solution for applications that require high processing power, high speed interfaces, a high level of reliability and quality, the ability to optimize system interfaces and footprint and execute with real-time arithmetic and control.



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- Florida - GEN
 - Miami MPSoC ZU6/ZU9/ZU15
- Dyplo supported platform
- 2x Samtec QTH-060-01-L-D-A board-to-board interconnect
- 1x LAN (1000M/100M/10M)
- WiFi via USB or PMOD
- 4x UART via USB including primary console
- 2x Sata-3
- I2C via PMOD
- SPI via PMOD
- 1x USB 2.0 OTG
- 1x SD-Card/ SDIO
- 4x PMOD
- Audio via HDMI or USB
- HDMI 1.4 IO
- 1x JTAG
- 5x LES, 2X Input switches, 4x PMOD incl ADC GPIO
- single 12V or 15Vdc supply
- 0°C...+70°C