









Overview

Features

RoHS Information

Purchase

MPFS250T

Mid range, low power, with hard RISC-V based

Status: In Production.



Documentation



Symbols

The PolarFire® SoC FPGA family delivers an unparalleled combination of low power consumption, thermal efficiency and defense grade security for smart, connected systems.



It's the first system on chip (SoC) field-programmable gate array (FPGA) with a deterministic, coherent RISC-V CPU cluster and a deterministic

Read More

Product Features

- Microcontroller Subsystem
 - 64-bit RV64GC Quad Application processing cores, Fmax of 667 MHz (-40 °C to 100 °C Tj), 3.125 CoreMarks/MHz, 1.714 DMIPS/MHz
 - o 128 KB eNVM
 - L1 Cache 32 KB instruction; 32 KB Data
 - L2 Cache 2MB
 - 2 CAN 2.0 Controllers
 - 2 GigE MACs
 - USB 2.0 OTG
 - MMC 5.1 SD/SDIO
 - 5 multi-mode UARTs











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- 784 Math blocks (18x18 MACC)
- o 812 LSRAM blocks (20k bit)
- 2352 uSRAM blocks (64x12)
- o 470 Kbits uPROM
- 16 SerDes lanes of 12.7 Gbps
- 2 PCle Gen2 end Points/Root Ports
- Temperature Extended Commercial and Industrial

Parametrics

Analog

Ethernet

Click on a property to perform a parametric search for other products with that property.

No

10/100/1000 MAC

, maiog	110
CAN	2
Data Security	No
DDR	DDR 3/4. LPDDR3/4
eNVM	128 KB
eSRAM	No

Fabric RAM 17600 Kbits

Fabric uPROM 470 K bits

FPGA I/O 372

Hard CPU 4XRV64GC, 1XRV64IMAC

I2C 2











Features RoHS Information Purchase Overview Math Blocks 18x18 784

Max. User I/O 372

MMC **5.1 SD/SDIO**

MSS I/O 136

PCle 2 - End Point / Root Port

PolarFire SOC Product Type

1 - XIP **QSPI**

SPI 2

Temp max 100C

Temp min -40C

Muti-Mode UART 5

USB 1 HS 2.0 OTG

All Application Notes

RoHS Information











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