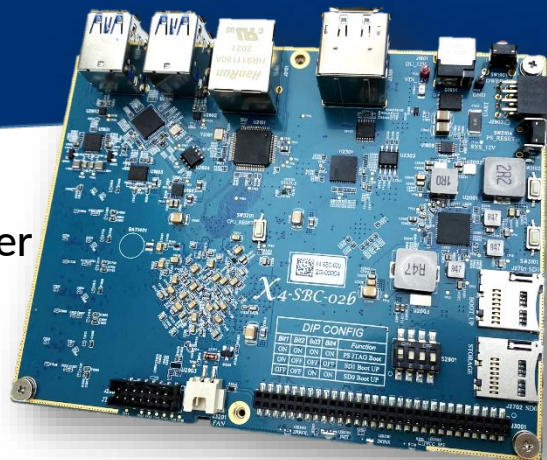


PlanetSpark PSX4 Single Board Computer

Designed for Edge AI /Embedded Vision



The PlanetSpark PSX4 Single Board Computer (SBC) is an arm-based, Xilinx Zynq Ultrascale+ MPSOC development board with a video codec.

With it's included middleware and support for many common peripherals and interfaces, this SBC can help developers jumpstart designs for Industrial internet-of-Things applications, machine vision and embedded vision applications.

KEY FEATURES

Xilinx ZU4EV

- CPU
 - Quad-core ARM® Cortex™-A53 MPCore™ up to 1.5GHz, on-chip 256KB + L1 32KB + L2 1MB
- Realtime
 - Dual-core ARM Cortex-R5 MPCore™ up to 600MHz, 128KB per core + L1 32KB I/D per core
- GPU
 - Mali™-400 MP2 up to 667MHz + L2 64KB
- Video Codec - H.264/H.265
- 192k System Logic Cells

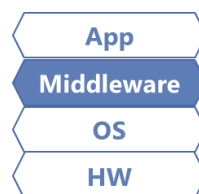
Input / Outputs (I/O)

- 4 x USB3.0
- Display Port / HDMI
- 1Gb Ethernet (with GigE)
- 2 x microSD Card slot

Highlights

PlanetSpark Middleware

With our middleware, product developers do not have to write the application-specific software program from scratch to demonstrate their use cases.



Pre-trained AI Models

A comprehensive set of pre-optimized models are provided. Developers can leverage this to find the closest model and start re-training for your targeted applications.



High Performance at Lowest System Power

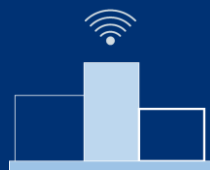
With it's efficient, scalable and programmable IP cores, customization can be done for many different applications to achieve a balance of performance at the lowest system power.



Multiple Interface and Peripheral Options

With support for many high speed interfaces like USB3.0, Tri-mode Gigabit Ethernet and SATA 3.1, developers can use this to jumpstart their embedded vision designs.





Smart City

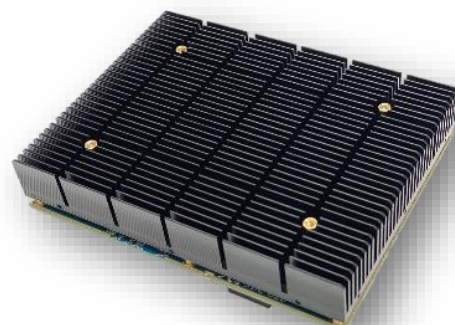
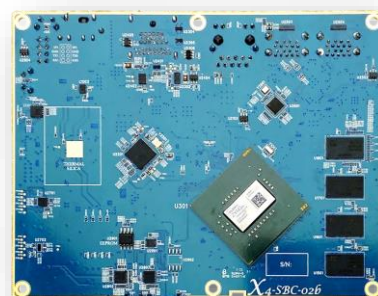


SecureTech

SPECIFICATIONS

CPU	Quad-core ARM® Cortex™-A53 MPCore™ up to 1.5GHz, on-chip 256KB + L1 32KB + L2 1MB
Real-Time Processor	Dual-core ARM Cortex-R5 MPCore™ up to 600MHz, 128KB per core + L1 32KB I/D per core
Graphics Process	Mali™-400 MP2 up to 667MHz + L2 Cache 64KB
Video Codec	H.264/H.265
Programmable Logic	192k System Logic Cells
Memory	2GB DDR4 memory
Storage	microSD (not included)
Video Encode	4K@60 , H.264 or H.265 Simultaneous encode up to 32 streams Ultra-low latency and low latency modes ROI encoding
Video Decode	4K@60 , H.264 or H.265 Simultaneous encode up to 32 streams Ultra-low latency and low latency modes ROI encoding
High Speed Connectivity	4xUSB 3.0 , 1xDisplay Port, 1xHDMI port, 1xTri Mode Gigabit Ethernet Port
General Connectivity	2xSD Card Slot
Dimensions	230mm x 135mm x 85mm

REAR VIEW



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