

VISION SOC

V 2 6 0 1



Quad Core 1+ GHz

High multithreaded performance with RV64GCV



Enhanced Connectivity

LPDDR4, eMMC, USB, CAN-FD



Vector Extensions

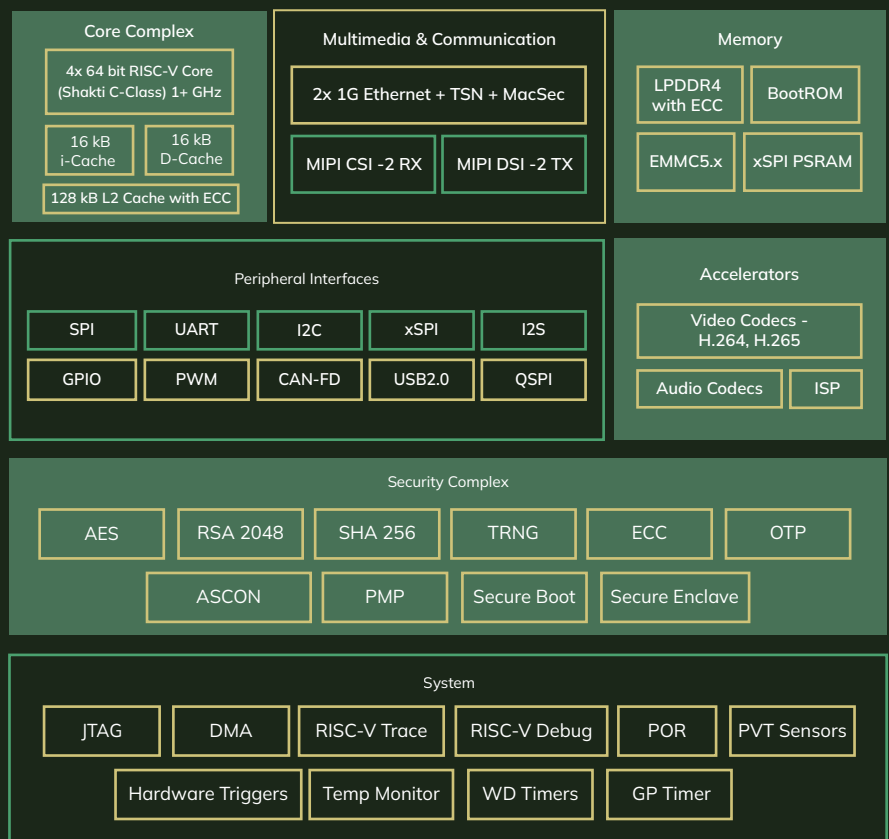
Efficiently handle data parallel operations



Security Complex

NIST compliant
Integrated cryptographic engine and OTP memory

Mindgrove Silicon - V2601



: Supported by MeitY's DLI Scheme :

Applications



Smart Cameras



Computer Vision



Industrial Control



Automotive

Integrated ISP: Advanced Image Signal Processing

Image Pre-Processing & Correction

- Black Level Adjustment
- Lens Shading Correction
- Polynomial Lens Distortion Correction
- Fish Eye Lens Distortion Correction
- Auto White Balance (AWB)

Demosaicing & Color Processing

- Bilinear Interpolation Demosaicing
- VNG Demosaicing
- Edge Aware Demosaicing
- Gamma Correction
- RGB to YUV420p

Image Enhancement & Filtering

- HDR Merging and Tone Mapping
- Gaussian Blur Filter
- Mean Filter
- Non Local Means filter / BM3D Denoising

Geometric & Transform Operations

- Rotate / Flip
- Resampling - Nearest Neighbor, Bilinear, Bicubic

Software Stack



Bare-Metal SDK

Board Support Package
Drivers included
PSA complaint crypto API's



IDE Integration

Visual Studio Code based
IDE, Eclipse based IDE



Bootloaders

OpenSBI, U-Boot



Real Time OS Supported

Zephyr, FreeRTOS,
seL4, NuttX, Linux

V2601 is compliant with STQC IoT System Certification Scheme

Partner with Mindgrove Today

We design innovative System on Chips (SoCs) in India, for the world. Cost effective and rich in features, we supply scalable and dependable next- generation technology.

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www.mindgrovetech.in



+91 7305086170



sales@mindgrovetech.in