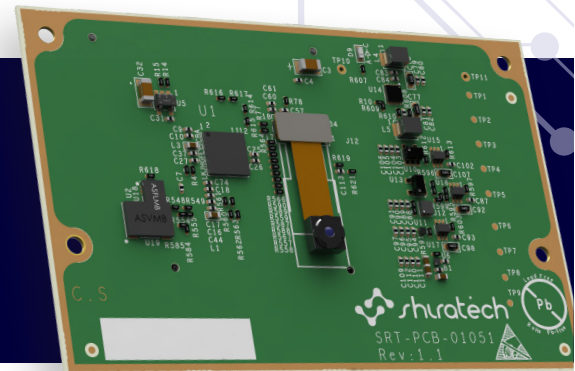


Camera Mezzanine for 96Boards VisiON96-ARX3A0



→ OVERVIEW

Camera VisiON-ARX3A0 is a 96Boards compatible add on board with OnSemiconductor 0.3MP imaging sensor and AP1302 ISP for evaluation and prototyping.

It use 34pin IAS Module standard connector.

The ARX3A0 brings new options to IoT device , drones and robotics.

ARX3A0 CMOS IMAGING SENSOR

Main features:

- Ultra Small 1/10.3" optical format
- Ultra Low Power Operation (draws less than 3.2 mW while active)
- High Frame rate (360 fps)
- On-board frame buffer
- Smart wake
- MIPI interface
- Mono and RGB
- Physical dimensions: 5x5[mm], Including Flat cable 21.5x5[mm]
- Ultra Low power consumption:
- < 19 mW at 30 fps, < 82 mW at 120 fps, < 140 mw at 360 fps

AP1302 IMAGE COPROCESSOR

Advanced Image Coprocessor for ON Semiconductor's Sensors

Main features:

- Optimized for operation with ON Semiconductor's Clarity+™ Pixel technology sensors as well as Bayer pattern CMOS Image Sensors (CIS)
- Up to 13 MP (4224×3156) sensor support
- Designed to support ON Semiconductor sensors that provide video interlaced HDR (iHDR)
- 450 MP/second processing (13Mp at 30/1080p at 120/720p at 240 – subject to sensor limitations)
- Color gaining and gamma correction
- Frame rate reduction, image resizing and clipping
- Auto exposure, auto white balance, auto focus, auto flicker detection and mitigation

Board Information:

- Physical dimensions: 85 x 54 x 12mm
- Power consumption: Less than 1W

Ordering Option

- P/N: SRT-VISION96-ARX3A0

→ BLOCK DIAGRAM

