

GLOBAL ODM SOLUTIONS



WiFi Dashcam



Edge AI Dashcam



WiFi Camera



LTE Edge AI Camera



N4 BLE Beacon



WiFi Bodycam



4G / 5G Bodycam



Video Doorbell



Edge AI Box



N1 BLE Beacon

Powered by RAPIDISE SOM Series

5430-SOM-FP01
6 Core CPU
2 Core DSP
3.5 TOPS NPU
315 MHz GPU
(44MP) Dual ISP



Rise X1

5430-SOM-FP02
8 Core CPU
2 Core DSP
6 Tops NPU
315 MHz GPU
(44MP) Dual ISP



Rise X2

5430-SOM-FP03
8 Core CPU
2 Core DSP
8 Tops NPU
550 MHz GPU
(58MP) Tripple ISP



Rise X3

6490-SOM-FP01
8 Core CPU
2 Core DSP
12 Tops NPU
812 MHz GPU
(58MP) Tripple ISP



Rise X4

8550-SOM-FP01
8 Core CPU
4 Core DSP
48 Tops NPU
719 MHz GPU
(108MP) Tripple ISP



Rise Z1

6225-SOM-FP01
8 Core CPU
2 Core DSP
2 TOPS NPU
950 MHz GPU
(25MP) Dual ISP



Rise Y1

8 Core CPU
Hexagon™DSP
1.1 TOPS NPU
950 MHz GPU
(16+24) Dual ISP



Rise C1



DESIGN, MANUFACTURE & LAUNCH – We Make It Happen

PRODUCT ENGINEERING SERVICES

NPD



Embedded Hardware

- Hardware Architecture
- BoM Optimization
- Schematic & Layout Design
- High-Speed Board Design
- Certification & DFM



Information Technology

- Web & Mobile App Development
- IoT Dataflow Architecture
- Managed DevOps Services
- Cloud Engineering - AWS, Azure, GCP
- Robotic Process Automation



AI Development

- Computer Vision
- Edge AI Computing
- ADAS & DMS
- Recommendation Engine
- NLP & LLM



Mechanical Design

- New ID Concept Generation
- Reverse Engineering
- Simulation and Analysis
- IP Standards Validation
- 3D Engineering



Embedded Software

- Bare Metal, RTOS, Linux, AOSP
- BSP, Device Driver and Firmware
- HAL, I2C, SPI, PCIe, WiFi, Cellular, Sensors
- Multimedia Codec & Framework
- User Interface Software



New Product Introduction

- Pre-Compliance & Certifications
- DFM Analysis
- Automated Test Jigs
- Re-engineering & Optimization
- Product Lifecycle Management

MANUFACTURING

NPI



Manufacturing Services

- PCB Assembly (SMD, DIP, TH)
- Box Build & Full Product Assembly
- High Mix Low Volume Manufacturing
- Mold Development
- Plastic/Metal Parts Manufacturing
- Rapid Prototyping
- Supply Chain & Inventory Management
- QA/QC, AOI, SPI, X-Ray etc.
- Packaging
- Green Manufacturing



Manufacturing Capabilities

- Fuji SMT Line, 200k CPH, ISO Class 8 Clean Room
- Camera Module Assembly, ISO Class 6 Clean Room
- In line Solder Paste Inspection
- Solder Paste Printer - Automatic
- Nitrogen and Lead-free Compatible Soldering
- Wave Soldering, Selective Soldering
- 3D Automatic Optical Inspection
- X-Ray Inspection
- 100% Traceability with MES integrated with SAP
- Component Mounting Machine Capability :
Min : 0201 mm, Max : 102*102*T 25.4 mm, Accuracy : 30 Micron



TESTING & CERTIFICATIONS



IP Rating

- Air Showers
- Bench Top Environmental Chamber
- Temperature & Humidity Test
- Salt Spray Chamber
- Water Spray
- Dust Chamber
- Laboratory Oven
- Vibration Test
- Thermal Shock



EPC Testing

- 100x Microscope
- Profile Tuning Suite
- Dark Room for camera lens calibration
- Resistance Meter
- Power Analyzer
- Thermal Imager
- Insulation Test
- Highly Accelerated Stress Test
- Digital Call Box and Analog Call Box



EMI Testing & RF Tuning

- ESD Checker & Simulation
- Semi Anechoic Chambers
- EMI Test Receivers
- RF Power Amplifiers & Pre-Amplifiers
- Directional Couplers
- Spectrum Analyzers
- Vector Network Analyzers
- Signal Generators
- RF and Microwave Switches



Design: PRD & Architecture

Technical Blueprints for Product Design



Development: Beta Prototype

The Development of A Functional Prototype



Certification: Alpha Prototype

Regulatory Certifications such as FCC, UL, CE, and RoHS



Production Ready Unit

A Beta Production Run of 50-100 Units



Mass Production

Complete Commercialized Product in Market