

360° FIELD-OF-VIEW CAMERA SYSTEM

OEM IP Video

ATOMAS-IOT-MICRO IP Video Encoder Module

The IONODES 360° Field-of-View Camera System is a complete kit for OEM customers looking to develop a system that includes a 360° field-of-view camera. The solution is powered by the compact form factor ATOMAS-IOT-MICRO module, a feature-rich IoT video encoder that is capable of on-camera stitching and dewarping.



Features

- Two stitched wide-angle MIPI camera modules
- On-camera dewarping and virtual PTZ
- Supports up to 4K30 resolution (full 360 images)
- H.265 (HEVC) / H.264 / MJPEG video compression
- Local recording to microSD card
- ONVIF Profiles G,S,T
- Powered by Qualcomm Octa-core SoC
- Optional IoT features: Wi-Fi, Bluetooth, GPS

Simultaneous Dual 180° Camera Support

The IONODES 360° Field-of-View Camera System delivers seamless 360° image stitching for back-to-back camera configurations. By directly connecting two wide-angle MIPI camera modules, the ATOMAS-IOT-MICRO simultaneously processes the video feeds and streams or records them via ONVIF and other IP APIs.



High Performance Video Engine

The ATOMAS-IOT-MICRO features a powerful Qualcomm IoT SoC capable of delivering premium features for building advanced smart IoT cameras. When used to manage up to two cameras, the ATOMAS-IOT-MICRO offers powerful computing for on-device camera processing and machine learning (AI) with exceptional power and thermal efficiency.



IoT Enabled for Endless Possibilities

The ATOMAS-IOT-MICRO offers the latest in IoT and networking connectivity functions including: Ethernet, Wi-Fi, Bluetooth, GPS, 9-axis IMU and much more.

