









*Preliminary*



# Axora
## IP encoder

## Dual video. Low latency. AI-ready.

Axora brings together video processing, connectivity and intelligence in one compact embedded platform.

Designed for the latest generation of zoom block cameras, Axora converts LVDS video into IP and Wi-Fi streams in real time, delivering ultra-low latency video up to 1080p60.

Its native dual-input architecture makes it ideal for visible & thermal cameras.

Its powerful AI-ready processor brings your next-generation applications to life. Embedded Linux, development tools and SDKs provide the flexibility you need to develop and deploy new features quickly and efficiently.

**Compatible with Sony's and Tamron's zoom block camera range, including the latest Sony FCB-EV9520L & Tamron MP3010.**

**DUAL VIDEO**
Visible+ Thermal
*One platform, two video sources*

**IP + WI-FI**
Flexible connectivity
*Wired or wireless video streaming*

**ULTRA-LOW LATENCY**
Up to 1080p60
*Designed for real-time applications*

**AI-READY**
Linux + SDK
*Ready for intelligent applications*

be **visionary**

# Axora

## KEY FEATURES

### High-performance processing
- NXP i.MX95 Quad-core Arm® Cortex®-A55 processor
- AI-ready architecture
- Embedded Linux environment



### Advanced video
- IP video streaming up to 1080p60
- Dual 1080p60 streams, independently configurable
- H.264 / H.265 video encoding
- Ultra-low-latency RTSP streaming

### Multi-camera connectivity
- Video inputs: LVDS, USB & add-on connector
- Designed for visible + thermal camera configurations
- Camera control via RS-232 or TTL UART

### Streaming & recording
- IP & Wi-Fi video streaming
- ONVIF compatible
- Local video recording & snapshot
- On-board storage + microSD card slot

| FUNCTIONS | SPECIFICATIONS |
|---|---|
| IP video output | RTSP streaming with glass to glass latency < 150ms* |
| IP video connectivity | Ethernet via USB-C connector, or Wi-Fi |
| Ethernet | 10/100 Mbits/s |
| Wi-Fi | Wi-Fi 6 – IEEE 802.11ax/ac/a/b/g/n |
| Camera control | VISCA commands via UART RS-232 (default), TTL or Ethernet |
| GPIOs | Configurable GPIOs |
| Power supply | 12 VDC ±10% |
| Operating temperature | 0° to 60°C |
| Storage temperature | -20°C to 60°C |
| Dimensions (mm) | 57.5 × 50 × 20 mm (H × W × D) / 30 mm depth with heatsink |

**Depending on video configuration and network conditions.*

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## Need a custom version ?

We support tailored solutions based on your system's layout, connector positions, or special commands.
Tell us about your application. We'll help you build the right solution.

## About i2S | Twiga

For over 46 years, i2S has been developing advanced imaging solutions, from image capture and processing to complete custom vision systems. In 2023, i2S expanded its expertise by acquiring Twiga, a global specialist in video acquisition, transmission and processing.

Today, our combined expertise enables us to support customers from initial requirements and design through prototyping, industrialization and series production, across demanding markets such as medical imaging, UAV & robotics, industrial vision and underwater imaging.

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