

Elevate Surveillance

with Cameras that See, Sense and Think

Public safety and infrastructure security is fuelling the adoption of intelligent IP cameras with embedded AI that can analyze and detect events or behaviors and send real time alerts to first responders. IP cameras also deliver critical insights to optimize traffic congestion, improve people flow at major events and provide business insights and automation to retailers. In industrial and commercial environments, heightened surveillance enhances worker safety, adds quality control, and controls access to critical assets. As a co-creation partner of choice, ADI brings the core technology and execution expertise to enable cameras to see, sense and think at the intelligent edge.

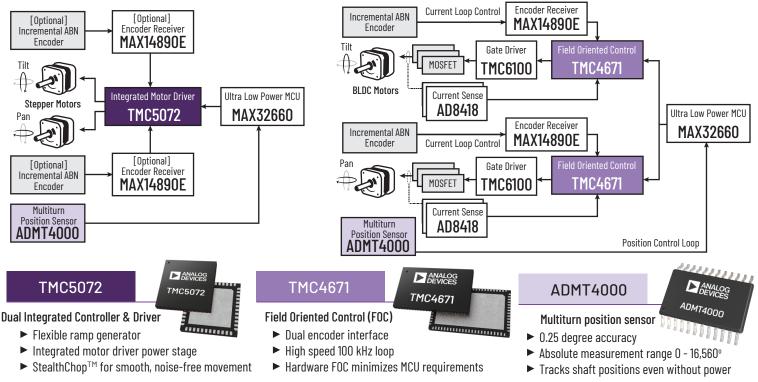
FLEXIBLE ENABLING THE CONNECTIVITY INTELLIGENT EDGE Diverse use cases require Actionable insights with varied connectivity solutions real-time edge analytics • ADIN1300 / LT4321 + LT4293 MAX78000 / MAX78002 Industrial Ethernet / PoE++ PD AI MCU with CNN Accelerator ADIN1100 / LTC9111 10BASE-T1L / SPoE PD SECURING THE EDGE MAX96705A + MAX96706 Prevent Tampering & GMSL (Gigabit Multimedia Serial Link) Safeguard Data DS28S60 Cryptographic Coprocessor INTELLIGENT MOTION MAX01065 Rapid Targeting, Precision Tracking Cryptographic Controller TMC5072 Dual Axis Integrated Motor Driver AUGMENTING VISION TMC4671 + TMC6100 **Overcome Harsh Weather** Field Oriented Control with Predriver & Complex Environments • ADMT4000 ADF5901 + ADF5904 + ADF4159 Multiturn Position Sensor 24 GHz Multichannel Radar



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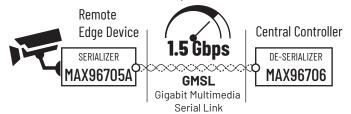
Empowering Intelligent Motion

Surveillance cameras must rapidly target an event or intruder then smoothly track and record movement. For stepper motors, the TMC5072 cDriver[™] dual axis integrated motor driver embeds hardware accelerators that improve efficiency and precision, while simplifying system design. Alternatively, the TMC4671 provides field oriented control for BLDC motors, significantly reducing the burden on the system MCU, while the TMC6100 provides the required drive for external MOSFETs. The ADMT4000 multiturn position sensor can track multiple rotations of the motor shaft without shaft contact and even when power is lost, eliminating the need for additional angle sensors – this greatly simplifies camera design, reducing size, weight and solution cost.



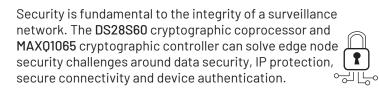
Flexible Connectivity

The ADIN1300 provides scalable edge-to-enterprise industrial Ethernet. Add device power with the LT4321 bridge controller and LT4293 PoE++ PD interface controller. 10BASE-T1L (ADIN1100) extends connectivity over a twisted pair cable for remote camera installations, with LTC9111 SPoE for device power. Where small discrete fixed zoom cameras are required, ADI's high speed serial data-link GMSL (MAX96705A/ MAX96706) supports the transmission of uncompressed HD and audio over coax or twisted pair cable.



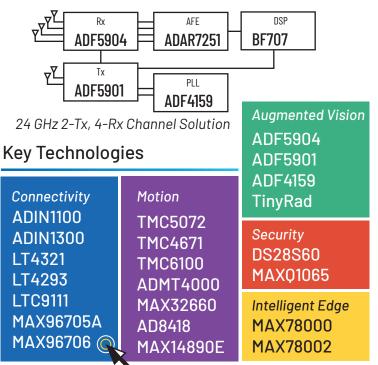
Embedding AI and Security at the Edge

The MAX78000/MAX78002 MCUs with embedded neural network accelerators enable edge-based Al for object and event detection, particularly in power sensitive applications.



Enhancing Traditional Vision Systems

When monitoring large, exposed areas in all weather and light conditions radar complements traditional surveillance cameras, minimizing false alarms and enabling fast intruder detection. ADI's 24 GHz radar products (ADF5901/ADF5904/ADF4159) and TinyRad evaluation system can help expand your surveillance capabilities.





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