

The Avago Advantage



Applications Solutions

Avago Technologies Solutions for **Security and Surveillance Systems**



Your Imagination, Our Innovation
Sense • Illuminate • Connect

Avago Technologies Solutions for **Security and Surveillance Systems**

Avago Technologies provides solutions for industrial networking applications including security and surveillance systems. The various elements of the system need to be interconnected, often over long distances, and managed by a central processing system that analyzes image data, detects intrusion alerts, and manages storage to digital video storage arrays.

For security and surveillance systems, Avago offers digital optocouplers for electrical isolation, fiber optic components, and camera pan, tilt, and zoom motor controls.

Optocouplers are used to maintain data integrity, thereby eliminating ground loop current and common mode noise. We also provide multi-channel and bi-directional optocouplers that operate at both 3V and 5V. Optocouplers will commonly be used where a copper-based network is being used.

To meet longer run networking needs, the Avago plastic optical fiber (POF) based solutions are a good fit because the fiber can be run very close to EMI producing devices without compromising the data link.

Security cameras often incorporate remotely controlled pan, tilt, and zoom functions and Avago has encoder and optocoupler solutions to use in these types of applications.

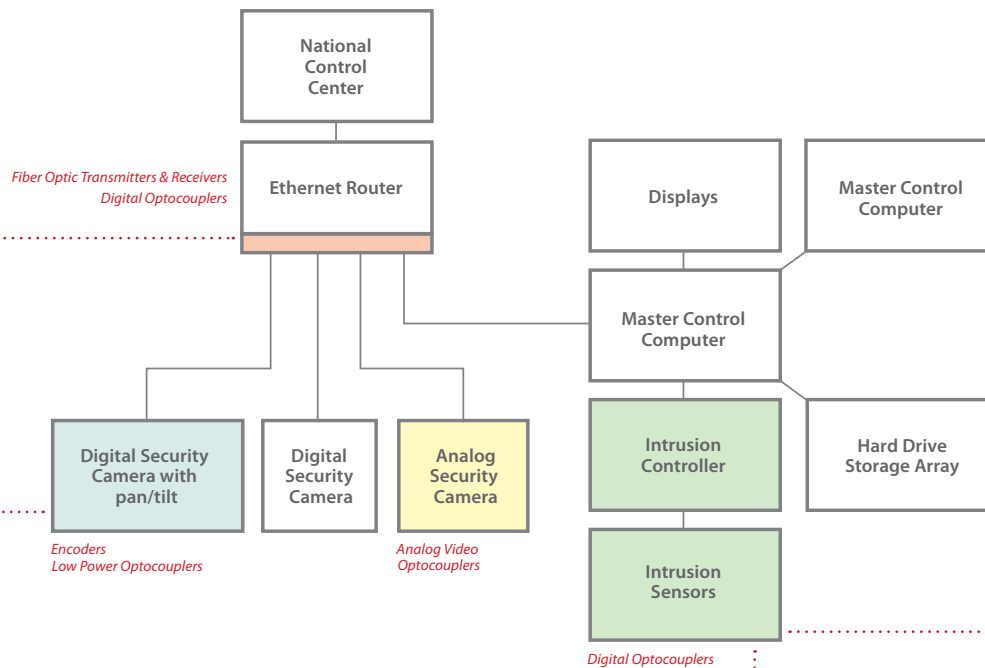


Fiber Optic Transmitters and Receivers

Avago industrial fiber optic transmitters and receivers operate reliably for data transmission over fiber in applications that require the highest electrical isolation between the transmitter and receiver. Due to their insensitivity to electromagnetic radiation, these devices are suitable for use in surroundings with EMI present such as those found in industrial and factory environments.

Featured Products

- 125MBd SFP Transceiver for Fast Ethernet and FDDI
- 125MBd Industrial Fast Ethernet Transceiver over Plastic Optical Fiber
- Optical Transmitter and Receiver for Industrial Applications with ST Port
- 10MBd Optical Transmitter and Receiver with ST Port over Plastic Optical Fiber



Camera pan/tilt/zoom motor control

Avago Technologies offers motor control solutions that are ideal for the small motors and packaging in digital security cameras. Avago offers the world's smallest encoder, high resolution optical and magnetic encoders and very low power optocouplers that are ideal for these applications.

Featured Products

- Miniature Programmable Magnetic Encoder
- Miniature Encoders
- Absolute Encoders
- Low Power Optocouplers

Analog Video Optocouplers

Avago offers analog video optocouplers with the wide bandwidth and high linearity to be capable of providing isolation for analog video in popular formats including NTSC, PAL, SECAM, S-VHS, and analog RGB.

Featured Products

- High Bandwidth Analog/Video Optocouplers

Digital Optocouplers

Avago Technologies offers a variety of incremental and absolute encoders, including the world's smallest reflective encoder, as well as very low power optocouplers that are suitable for use in security and surveillance cameras.

Featured Products

- 10MBd Ultra Low Power Digital CMOS Optocouplers
- 1MBd Low Power Open-Collector Output Digital Optocouplers
- Multi-Channel Bi-Directional Digital Optocouplers
- 15/25MBd High Speed Digital CMOS Optocoupler



Your Imagination. Our Innovation



Avago Technologies is a leading designer, developer and global supplier of a broad range of analog, mixed signal and optoelectronics components and subsystems with a focus in III-V compound semiconductor design and processing. Backed by an extensive portfolio of intellectual property, Avago products serve three primary target markets: wireless communications, wired infrastructure, and industrial and other. Avago has a global employee presence and heritage of technical innovation dating back 50 years to its Hewlett-Packard roots.

Avago products serve three diverse end markets

Wireless Communications serving the smartphone/handset and Base Station infrastructure markets with leading-edge products that include:

- Power Amplifiers
- Front End Modules
- Film Bulk Acoustic Resonator (FBAR) Filters
- GPS/GLONASS LNAs
- Optical Finger Navigation
- LED Backlighting, Screen Illumination
- Ambient Light and Proximity Sensors

Wired Infrastructure for switches/routers, data centers, supercomputers and storage/servers with products that include:

- 168Gb Parallel Optic Arrays
- 28Gb SerDes ASICs in 28nm
- Storage Fibre Channel Transceivers
- QSFP+/SFP+ Ethernet Transceivers

Industrial and Other for alternative energy power generation, electronic sign and signals, automated manufacturing, automotive lighting, GPS/GLONASS navigation, motor inverter system, battery charging and management, infotainment systems and vehicle safety systems with products that include:

- Inverters
- Isolation and Digital Optocouplers
- Motion Control Optical & Magnetic Encoders
- Polymer Optical Fiber
- Indicator and Display LEDs



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