



DETECT. CONNECT:

SMART CITY OUTDOOR SURVEILLANCE ECOSYSTEM

Accelerate your path to delivering increased safety in the smart surveillance market with our proven interconnect and antenna solutions.

DID YOU KNOW...?

The video surveillance storage market is projected to be worth

\$10.2 B

by 2025

Gartner predicts outdoor surveillance cameras will be the largest market for

5G IoT

solutions over next three years

5G IoT installed endpoints for outdoor surveillance cameras will reach

11.2 M

units in 2022

Outdoor cameras will represent

70%

of the 5G IoT endpoint installed base in 2020



CRIME DETECTION & PREVENTION

Video cameras can aid police in solving crimes and deter new crimes from occurring. Sound sensors can help police pinpoint specific information, such as gunshots, and rapidly secure an area.



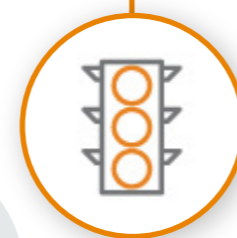
PARKING CONTROL

Smart parking can guide drivers to open spots, reducing congestion. Sensors or cameras can monitor vehicles for parking violations without human personnel.



PUBLIC SAFETY

Enhance situational awareness and improve community safety.



TRAFFIC CONTROL

Data from embedded sensors, video cameras, crowd-sourced traffic information and other sources can help cities better understand traffic and pedestrian patterns and make improvements, as well as route emergency response vehicles around congested areas.

TE CONNECTIVITY SOLUTIONS



WIRE TO BOARD

- High Performance Interconnects (HPI) Industry standard square-peg technology in single- and dual row post headers.
- Flexible Printed Circuit (FPC) Connectors Space saving solutions for signal routing.



ANTENNAS

Accommodate Wi-Fi, Bluetooth, Zigbee and many other frequency bands. A range of embedded antennas supporting low profile wireless connectivity for 4G and 5 GHz Wi-Fi applications.



BOARD TO BOARD

Free Height Connectors. These versatile connectors may be useful for downsizing applications that require parallel stacked circuit boards.



POWER & GROUNDING

Our miniaturized solutions help reduce and control the effect of EMI in complex systems.

CONSIDERATIONS FOR DESIGN PERFORMANCE



SIGNAL INTEGRITY

Excellent signal integrity can mitigate negative effects of electrical noise and can optimize design performance.



MINIATURIZATION

With the demand for miniaturization rising, choosing the right interconnect that allows flexibility to continually push the boundaries of design without compromising on connection reliability.



ROBUST DESIGN

Operating in outdoor environments, surveillance equipment and its components must withstand harsh environments including dust, water, high and low temperatures.



WIRELESS CONNECTIVITY

Addressing the challenges in providing efficient and omni-directional signals in the 5G wireless communication environment, as we face the increased likelihood of radio interference.



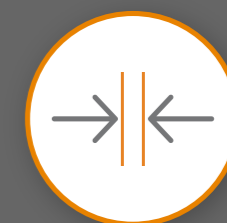
HIGH DATA RATE

Higher data rates that would be required for quickly transmitting sound and video data can introduce new challenges for outdoor surveillance.



MODULAR CONFIGURATION

The right interconnects can help design engineers adapt and be flexible to continually push the boundaries of design, allowing engineers to address tough design specs without compromising on connection reliability.



EMI PERFORMANCE

Multiple components in electronic devices including outdoor surveillance equipment emit electromagnetic fields (which can be conducted or radiated) of varying strengths, causing a potential for interference that can degrade or disrupt performance.

LEARN MORE at www.TE.com/smart-surveillance

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