NEXTIVITY
Smarter by Design

IntelliBrief

DAS-Based IoT Sensing Options

Connectivity for Smart Building, Operational, and Customer Applications







Nextivity is at the forefront of a fundamental shift in DAS technology, transforming infrastructure built for communications into an intelligent platform for sensing, data, and connected applications. Our patented technologies enable DAS infrastructure to do more than distribute signals, creating an active, interactive network that can support IoT sensing for smart building applications, operational efficiency, safety and security, and customer experiences.

This innovation is backed by significant Nextivity intellectual property, including patented technology for turning DAS into an active sensor network, Smart Server Antenna technology that brings intelligence to the network edge, and advanced sensing capabilities. With multiple implementation options across the Nextivity portfolio, organizations can choose the IoT sensing approach that best fits their building, network architecture, applications, and operational requirements.

Flexible Deployments

Nextivity offers several solutions that support IoT sensing: SHIELD EXTEND and SOLO, and CEL-FI QUATRA 4000c/e, QUATRA EVO, QUATRA 100M, and GO G43 IS. Each provides the connectivity needed to integrate sensors into the network, but each takes a slightly different approach based on the system architecture, hardware, connectivity method, and deployment requirements. Together, these options provide flexibility to support IoT sensing across a range of building sizes, environments, and applications.



CEL-FI QUATRA 4000c



CEL-FI QUATRA EVO



CEL-FI QUATRA 100M, 100M NH



CEL-FI QUATRA GO G43 IS



SHIELD EXTEND



SHIELD SOLO

IoT Sensing for Any Building

CEL-FI QUATRA 4000c/e, EVO

Supported Sensors: BLE
Extra Hardware: Edge Server, SMART SERVER ANTENNAS or Modules
Server Antenna DC-Passing Passives Coverage Area: Up to 1M+ ft2
Ideal Use Cases: Commercial, industrial, and other large or complex spaces such as high rises, data centers, and big box stores.

- People tracking
- Call or panic buttons
- Smart building controls
- Air quality
- Asset tracking
- Leak detection
- Temperature monitoring
- Noise / acoustic event detection



CEL-FI QUATRA 100M, 100M NH

Supported Sensors: BLE
Extra Hardware: Edge Server, SMART SERVER ANTENNAS or Modules
Server Antenna DC-Passing Passives Coverage Area: Up to 1M+ ft2
Ethernet Port for Direct Connect
Ideal Use Cases: High speed, high bandwidth, low latency applications in spaces such as hospitals, factories, and warehouses.

- Air quality monitoring
- Leak detection
- Asset tracking
- Smart building controls
- Worker presence plus
- Industrial controls, security cameras, and more via direct connection



CEL-FI QUATRA GO G43 IS

Supported Sensors: BLE
Extra Hardware: Edge Server
Server Antenna DC-Passing Passives Coverage Area: Up to 15k ft2
Ideal Use Cases: Quick-serve restaurants, small box retail, branch offices.

- Leak detection
- Occupancy detection
- Asset tracking
- Smart building controls
- Environmental monitoring (e.g., temperature, humidity, air quality)



SHIELD EXTEND and SHIELD SOLO

Supported Sensors: BLE
Extra Hardware: Edge Server, SMART SERVER ANTENNAS OR Modules
Server Antenna DC-Passing Passives Coverage Area: Up to 1M+ ft2
Ideal Use Cases: Venues requiring ERCES public safety coverage can leverage the system for:

- Panic buttons
- Smart building controls
- Occupancy detection
- Asset tracking



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