

RUGGED **EDGE**

EDGEONE

Purpose-built, industrial grade, intrinsically safe edge computing hub
with 5G and enterprise grade Wi-Fi 6 and Wi-Fi 6E connectivity
ready out-of-the-box



Connection to IoT Devices

- Bluetooth 5.2 (16 connections)
- WI-FI 6e (16 connections)
- Near Field Communication

On-Device Computing

- Qualcomm QCM6490 processor, Kryo 670CPU
- Push-to-talk via embedded app
- Operating System: Enterprise AndroidOS
- Memory: 4 GB RAM, 64 GB internal storage
- Ability to create custom on-device applications

Connection to the Cloud

- 4G/5G LTE
- Public/Private/CBRS with one physical and one e-SIM.
- Ability to have at least 6 e-Sim's simultaneously, with one e-sim active at a time.

On-Device Sensors

- Magnetometer
- Accelerometer
- Gyroscope
- Barometer
- Camera
- Microphone
- GPS
- 5G location
- Panic Button



Mobile Use Case Example

- Field worker clips the EdgeOne device to his person to start the day shift
- EdgeOne automatically connects to any on-person or nearby devices
- Example devices on the person
 - Mobile Gas Sensor
 - WiFi Infrared Camera
 - RuggedEdge Health Monitoring Smart Watch
 - RealWear mobile headset



The worker can now:

- Communicate with remote experts via PTT and remote video feed
- Access Equipment P&IDs, Operating Procedures, and asset maintenance history throughout the facility
- Monitor their health statistics through the Smart Watch, including fall protection and man-down notifications
- Automatically upload data from connected devices to the Cloud for capture and analysis
- Monitor and detect emissions throughout the facility

Fixed Mount Use Case Example

- A drilling rig has multiple EdgeOne devices installed around the facility as fixed mounted installations
- All workers around the rig are equipped with on-person EdgeOne devices which supports both location and man down capabilities
- Audio and Video is Enabled on the Fixed Mount installation devices



The facility, via **EdgeOne integration**, can now:

- All Drilling rig sensors and equipment are connected to the cloud for remote operation.
- Create Geofencing for all personnel to provide a safe operation for robotics and drilling within a pre-defined Safety Zone. Any worker incursion automatically stops any robotic or drilling operation
- Provide 24/7 Security Monitoring of the facility via video and audio analytics
- Enable Smart Operations, informed remote decision making, and ensure worker safety



Product Comparison

EdgeOne is the Only Comprehensive
Class 1, Division 1 Solution on the Market

Features	RuggedEdge EdgeOne	5G/WiFi Hotspot	IOT HUB for Data Collection	PTT 5G Cellular Walkie Talkie	Fixed 5G/WiFi Access Point	Mobile & Fixed Surveillance Camera
Optimized High Speed Data (Public/Private/Safety)	✓	✓			✓	
Class 1/Division 1 - Intrinsically Safe/Military Spec	✓		✓	✓		✓
Optimized Network Broadcast (Hotspot)	✓					
Build Android Based Customer Applications	✓		✓	✓		
Smart peripheral Management	✓					
Fully PTT capable, channel selection/accessories	✓					
Remote Video Communication in Hazardous areas	✓					✓
Mobile/Wearable	✓		✓	✓		✓
Fixed Mountable	✓	✓			✓	
GPS Location Tracking + Man-down Support	✓			✓		
EXAMPLES		Netgear	Archer	Ecom	Solexv	Cord-EX