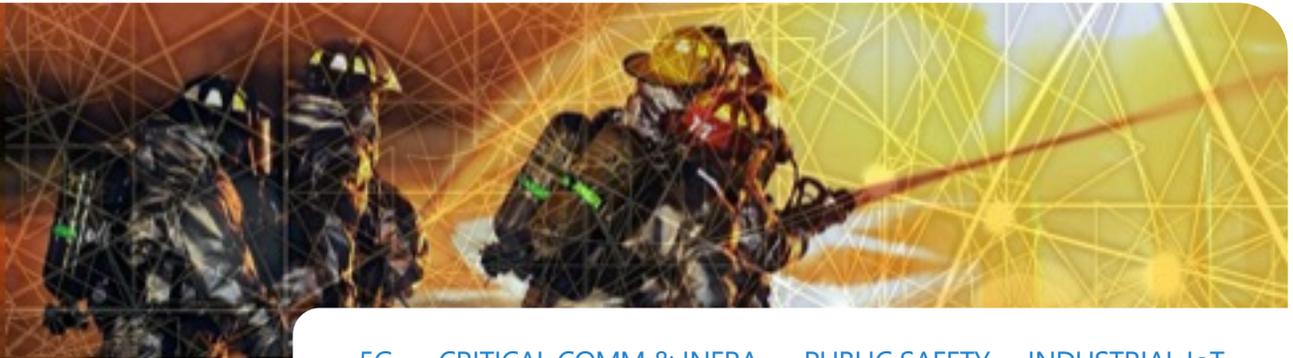


iMON

CRITICAL COMMUNICATIONS



5G CRITICAL COMM & INFRA PUBLIC SAFETY INDUSTRIAL IoT

AT A GLANCE

- Real-Time Common Operational Picture (RT-COP)
- IoT-supported intervention management tools
- On-site sensing, tracking and reporting tools
- Real-time video transmission from the field (apps, drones)
- Field/infrastructure surveillance with drones
- Survivable, scalable and robust communications from the field
- Compact portable/in-vehicle 5G-ready (in-a-box) communications node
- Real-time and advanced analytics



USE CASES

- Live multi-site intervention support with video surveillance and asset tracking
- Disaster recovery support with field triage reporting
- Robust on-site 5G coverage (compact portable and in-vehicle options)
- Real-time monitoring with video surveillance and tracking of critical systems/assets
- Field intervention monitoring with remote reporting and alerting



SYSTEM COMPONENTS

- iMON Connect – Compact portable/in-vehicle 5G-ready (in-a-box) communications node
- iMON Mobile App – Mobile app for field reporting and tracking
- iMON Dashboard – Real-time dashboard for common operational picture and intervention management



DEVICES

- Commercial and Ruggedized Android mobile phones with dual USIM capabilities
- Ruggedized industrial platforms (Advantech and Beagle board) with 4G and 5G support
- Wearable cameras
- Drones
- Environmental sensors (ultrasonic sensors)

ENVIRONMENT

- Industrial -40°C to +60°C
- Outdoor IP67+

MONITORING AND KPIS

- Real-time Common Operational Picture (iMON Dashboard)
- Centralized cloud-based data collector
- API support for external sources
- Advanced analytics with external data enrichment

MANAGEMENT

- Automated user and device management
- Flexible management of users, sensors and groups

TRACKING

- Unit tracking with iMON Mobile App
- Asset tracking with external modules
- Android-based location services: GNSS, WiFi/Cellular if used indoor
- External industrial GNSS USB module
- RT tracking and tracking history in iMON Dashboard

4G/5G MOBILE SYSTEM

- Mobile system (Rel.14)
- LTE, LTE-Advanced, NB-IoT, LAA
- Band B42 (4G) | n78 (5G), other band options
- Support for EPC, eMBMS and VoLTE
- Several implementation options: compact portable ruggedized (in-a-box), compact in-vehicle

ANALYTICS

- Sensor data analytics – triage reports, tracking paths, charts and graphs, event logs
- Advanced analytics with data enrichment and KPI visualization

TOOLS & APPS

- Android app for field triage reporting (iMON Mobile App)
- Support for video surveillance feed from apps, drones, cameras (fixed, body-worn)
- Support for integration of custom tactical/IT apps

IAAS TECHNOLOGIES

- KVM-based virtualisation
- OpenStack-based VIM
- Container support: Docker, LXD/LXC