



Intervention Monitoring & Critical Communications

An advanced, customisable and extendible solution for management of public safety operations and critical communications

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)
- Filed/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



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



USE CASES

PUBLIC SAFETY

- Live multi-site intervention support with video surveillance and asset tracking
- Disaster recovery support with field triage reporting
- Survivable and robust on-site 5G coverage (compact portable and in-vehicle options)

CRITICAL INFRASTRUCTURE PROTECTION

- Real-time monitoring with video surveillance and tracking of critical systems/assets
- Survivable and robust 5G coverage (compact portable and in-vehicle options)
- Filed intervention monitoring with remote reporting and alerting





Intervention Monitoring & Critical Communications

DEVICES

- Commercial and Ruggedized Android mobile phones with dual USIM capabilities
- Ruggedized industrial platforms (Advantech ARK and Beagle board) with 4G support (LTE/LTE-A/LTE-A Pro, NB-IoT)
- Wearable cameras
- Drones
- Environmental sensors (ultrasonic sensors)

ENVIRONMENT

- Industrial – 40° to 85°
- Outdoor IP67+

MANAGEMENT

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

MONITORING AND KPI

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

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

TOOLS AND 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

ANALYTICS

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

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

IAAS TECHNOLOGIES

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