# Making machines talk!

The best way to communicate with in-vehicle Transit and Public Safety applications.

# iCouples (Ubi-LAP2000)

- iCouples is 4G router for in-vehicle Transit and Public Safety applications.
- It is high speed 4G / LTE and WiFi broadband connectivity for all transit agencies (buses, light rail and train) and first responders (police, Fire/EMS...) for multimedia managed services including video, telemetry, passenger services, patient monitoring on emergency vehicle.
- It enables downlink data rate up to 100 Mbps and uplink data rates up to 50 Mbps through LTE networks.
- Frequency : 2.4 GHz WiFi ( 802.11 b/g/n )
- interface : 2 X RJ-45 for 10/100 Mbps LAN ports 1 X USB2.0 Port 1 X RJ-45 for 10/100 Mbps WAN port 2T2R 2.4 GHz / LTE Antenna
- Key feature
  WEP/WPA/WPA2 and 802.1x Auth.
  NAT and DHCP
  Supports VPN pass-through



## LTE / WCMDA Module

Data Services

D/L: LTE 100 Mbps, HSPA+ 42 Mbps U/L: LTE 50 Mpbs, HSPA+ 11 Mbps

- Qualcomm MDM9215 chipset
- Frequency Band LTE 850/1800 MHz WCDMA 2100 MHz
- Max RF ouput power ≥ 22 dBm
- Receiver Sensitivity ≤ 97 dBm(10MHz@Rb50)
- Environments

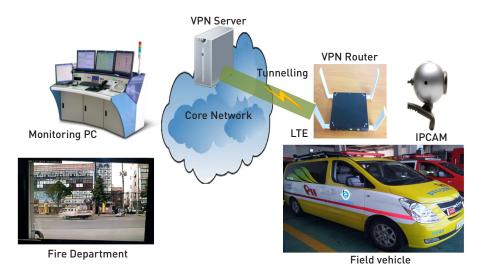
Operating temperature: -20°C to 60°C Storage temperature: -30°C to 85°C

## Mechanicals

- Dimension (WxHxT): 150 x 110 x 30 (mm)
- Antenna Connector for RF
- Input Powe r: 12 V
- Power Consumption: 10W(Max) / Normal (3~4W)

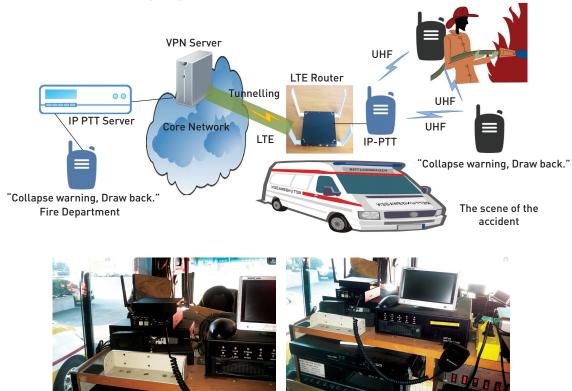
## Applied Examples / References

#### Video Surveillance



- Screen-streaming control using the VPN Gateway in the emergency vehicle.
- Test trial period: May 2014 ~ June 2014 (two months)
- Construction location: Incheon Fire Department.
- The number of service utilization: 262 times/ two months (average daily use: 4~5 times).
- Vehicle mounts the Incheon Asian Games Torch.
- Test trial period: July 2014 ~ September 2014 (two months)
- Service: Incheon Fire Department, Counterterrorism task force, controlled by the Incheon Asian Games Organizing Committee (Songdo).

### Voice Communication(PTT)



Communicate with the fire department through iCouples interworking with IP-PTT.

Construction location: The fire department, Ganghwa-gun, Incheon.