

Affordable 5G RedCap (Reduced Capability)



Marelli's Affordable 5G RedCap technology for automotive telematics represents a breakthrough in reducing the complexity and cost of traditional 5G for connected cars.

This streamlined version of 5G is engineered to offer higher data rates and lower latency while maintaining energy efficiency.

By simplifying infrastructure needs, Affordable 5G RedCap provides reliable connectivity for mainstream to premium segment vehicles and is significantly more cost-efficient than the full 5G technology.

Market Drivers

- Performance
- Cost optimization
- Efficiency

Target Markets

- Mainstream to premium segment vehicles in all regions

Cost

- Market Leader

Target Applications

- Telematics Control Unit

Key Differentiators

- Reduced complexity supports essential features with streamlined hardware
- Lower costs due to simplified hardware and selective capabilities
- Optimized power consumption enhancing battery life and efficiency
- Latency lower than 4G, typically around 20 ms
- Easier and more cost-effective deployment, suitable for less densely populated areas
- Limited support, focusing on essential services

Specifications

- Media streaming
- Over-the-Air Updates (OTA)
- Emergency Call (e-Call), Breakdown Call (b-Call)
- Remote command (Open/Close, HVAC Control, etc.)
- Remote Diagnosis
- GPS
- Wi-Fi/Bluetooth

Mass

- 200gr