

ACCELERATING THE FUTURE OF INTELLIGENT TRANSPORTATION

BEC's solutions utilize **Cellular Vehicle-to-Everything (C-V2X)** technology, a standard defined by the globally recognized 3rd Generation Partnership Project (3GPP) to compliment the existing US-promoted Dedicated Short-range Communications (DSRC), and Europe originated Cooperative Intelligent Transport Systems (C-ITS).

C-V2X is designed to support active safety and help enhance situational awareness by detecting and exchanging information using the low-latency direct transmission in the 5.9 GHz Intelligent Transportation System (ITS) band or the conventional mobile networks.

CREATING INTELLIGENT SOLUTIONS FOR A CONNECTED WORLD

BEC offers all-in-one solutions tailor-made for transportation operations to support the full range of connectivity needs, enabling a wide range of road transport and automotive services. We also provide intelligent management via BECentral®, BEC's cloud platform. A comprehensive suite of services to improve operational efficiencies and optimize service delivery to accelerate your ITS deployment.



C-V2X Roadside Units (RSU)



C-V2X Onboard Units (OBU)



Traffic Management Systems



Connected & Autonomous Vehicles



Smart Infrastructure



5G/4G LTE Commercial Network Solutions



BEC's Roadside Unit (RSUs) are rugged outdoor platforms with integrated antennas housed in an IP68 rated enclosure. BEC's RSU integrates seamlessly with existing traffic infrastructure, allowing in-vehicle/mobile devices to communicate with transportation infrastructures, such as traffic controllers and backhaul networks.

As part of the connected vehicle system, this component alerts drivers to adverse driving conditions, provides preemption for first responders, and signals priority for buses and service vehicles.



Onboard Units (OBUs) from BEC combine automotive-grade design, high-performance CPUs, and multiple connectivity options such as Ethernet, Cellular Modem, GPS, DSRC, and C-V2X. The platforms are designed for easy integration into OEM and aftermarket vehicles for collecting real-time driving information from other vehicles and roadside equipment.