

Manufacturer: Blue-Band

Product Model: Blue-Band

Blue-Band (www.blue-band.net for pictures) — This product operates on the DFS TrafficXRoads and Enterprise systems.

The Most Versatile Edge Compute Platform in Traffic!

“Our technology isn’t just another tool in the toolbox; it’s a game-changer that the industry simply can’t afford to overlook. With its unparalleled versatility and seamless integration capabilities, our edge compute platform revolutionizes traffic management, making it indispensable for optimizing transportation systems and safeguarding vulnerable road users.”

Our Differentiator: A Fully-Integrated Ecosystem

Discover our unique advantage: a seamlessly integrated ecosystem powered by the Integrator-AI™. Acting as the city’s central command center, it orchestrates communication between diverse devices at every site, synthesizing data for informed decision-making and real-time interventions. Enhancing traffic flow, ensuring pedestrian safety, and furnishing invaluable insights for the future. Unlock efficiency and foresight with our integrated system.

Discover Integrator-AI™

Scalable, Secure & Future-Proof Solutions via Transportation Fusion

Transform your approach to traffic technology with Integrator-AI™, a revolutionary product that simplifies the transition from concept to deployment. As a comprehensive solution, Integrator-AI™ enables efficient and intelligent traffic control.

What is Transportation Fusion?

Transportation fusion is the process of integrating multiple transportation devices/services simultaneously on a single platform. This is important because it enables sophisticated data analysis, coordination, and real-time action between devices.

SPM+ : Signal Performance Measures with Enhanced Data Fusion

The Integrator-AI™ modernizes Signal Performance Measures with SPM+, a new approach to servicing road users. By integrating connected vehicles and cutting-edge technologies into existing infrastructure, it enhances safety and efficiency. Edge computing adds vital, life-saving capabilities—as if a dedicated traffic operation team is at each intersection.

SPM+ comprises five key components:

- Pedestrian and Cyclist Data Integration
- Safety Conflicts Analysis
- Real-time Dynamic Interventions
- Customizable Use-Case Remedies
- Signal Performance Measures Analytics

V2X/Connected Vehicles: Integration of Legacy & Modern Communication

Integrator-AI™ excels at seamlessly merging sensor data with infrastructure information. Utilizing real-time analytics, advanced deep learning, and AI technologies, Integrator-AI™ orchestrates automated responses to optimize traffic patterns, improve road safety, and reduce congestion. Our adaptive traffic management system dynamically adjusts to conditions, enhancing efficiency and effectiveness in urban transportation.

Adaptive Pedestrian Detection: Real-Time Detection for Vulnerable Road Users

Integrator-AI™ takes safety to the next level by activating real-time detection zones specifically designed to protect vulnerable road users. This system utilizes advanced edge computing technology to communicate with various traffic controllers and notification platforms seamlessly, ensuring compatibility across different sensor types.

The primary goal is to create the safest possible environment for pedestrians.

Key Features Include:

- Dynamic Pedestrian Crosswalk Timing: Adjusts signal timing based on real-time pedestrian traffic flow to enhance safety and efficiency.
- Extended Timing for Slower Pedestrians: Automatically extends crosswalk signal duration to accommodate individuals requiring more time to cross, ensuring a safer pedestrian crossing experience.