



ORIUX BUS INTERFACE UNIT (BIU)



The Oriux TS2 NEMA BIU is a rack-mounted, modular-by-function device engineered for seamless integration into a variety of traffic control applications.

Its primary purpose is to interface 24 VDC logic-based inputs and outputs (I/O) with the Synchronous Data Link Control (SDLC) serial bus used in TS2 traffic signal cabinets. This design enables efficient communication and control between cabinet components and the controller.

Each BIU is configured with a unique position through a digital addressing system, offering exceptional flexibility for cabinet design, simplifying future system expansion, enhancing overall reliability, and supporting standardization across Oriux and other TS2-compliant systems.

Smart Design. Powerful Functionality. Unmatched Usability.

Role in TS2 Cabinet Configurations

In Type 1 and select Type 2 TS2 cabinet configurations, the BIU serves as the critical link between the Controller Unit and the cabinet's operational components. It performs essential functions such as controlling all load switch outputs, processing detector inputs and resets, and handling operations. These were previously managed through TS1-A, B, and C connectors or additional I/O modules (MSD).

Compliance and Power Supply

The Oriux BIU is designed to meet all applicable NEMA TS2 Standards. These Standards include those governing interface protocols, power requirements, environmental durability, and hardware specifications. The BIU is powered by an independent external 24 VDC supply and operates separately from the Controller Unit to enhance system reliability and operational flexibility.



ORIUX BIU FEATURES

System Connectivity

A 64-pin DIN 41612 type B series connector. This connector links the BIU to the Terminal and Facilities (TF) back panel or card rack, ensuring robust cabinet integration.

A 15-pin metal shell D-subminiature connector (Port 1). In addition, the BIU is equipped with latching blocks to secure connection to the Port 1.

Compliance and Power Supply

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Easy Installation

The front panel includes a handle for straightforward insertion and removal.



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**See It In
Action!**

Want to learn more or request a demo?

We'd love to show you how the BIU can improve safety, efficiency, and confidence at your intersections. Contact us today. **800-245-7660**.



Contact Us Today for more information.

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