

# Traffic Cabinet Components and Accessories

## Bus Interface Unit (BIU)

The Bus Interface Unit (BIU) is a rack module that interfaces 24V logic I/O signals to the Synchronous Data Link Control (SDLC) serial bus of TS2 Type-1 traffic cabinets. The BIU is required in all TS2 Type-1 cabinets and in TS2 Type-2 cabinets when controller I/O interface is through the SDLC bus.

The BIU is required in all TS2 Type-1 cabinets for serial communication and in TS2 Type-2 cabinets for detection I/O.

Physically, the BIU-64 consists of a circuit board and a front panel. A male 64-pin DIN 41612 Type-B series connector provides the connection to the backplane of the rack. A female 15-pin metal shell D subminiature connector with latching blocks provides the connection to the SDLC cable. The front panel provides separate indicator lights for Power, Transmit, and Valid Data. It also provides a handle for easy removal of the unit from the rack. A separate TS2 cabinet power supply provides the required 24 VDC power plus a 60 Hz line-timing reference.

### Key Features

- NEMA TS2 Compliant
- Upgraded Transient Protection on all I/O
- Made in America
- Optional Locking Mechanism





## Benefits

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## Specifications

- Port-1 (SDLC bus) pin assignments shall be as specified in Section 8.6.2.1 of the TS2 Standard:
  1. Rx Data
  2. Logic Ground
  3. Rx Clock +
  4. Logic Ground
  5. Tx Data
  6. Logic Ground
  7. Tx Clock +
  8. Logic Ground
  9. Rx Data -
  10. Not Uses
  11. Rx Clock -
  12. Earth Ground
  13. Tx Data -
  14. Reserved
  15. Tx Clock -