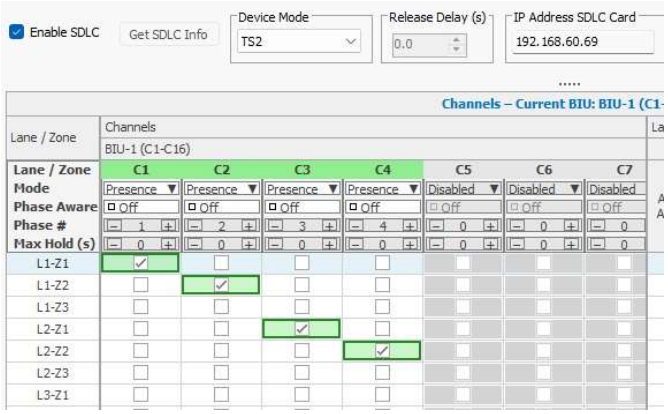
SDLC Interface Card for TS2/ATC Traffic Controllers

The Houston Radar SDLC device provides a simple, reliable, field proven solution for communicating vehicle detection data from up to four PX150 detectors to a TS2 or ATC traffic controller. The card emulates 1–4 Bus Interface Units (BIUs) or 1–5 Sensor Interface Units (SIUs), and supports any combination of 1 to 4 connected PX150s — making it equally suited for simple single-approach to complex multi-approach intersections.

Specifications & Recommended Operating Conditions	
Specification	**Recommended Condition**
Power Supply	10 - 48V, 24V nom, 1.5W max
Storage Temperature	-45 to 85 °C
Operating Temperature	-40 to 74 °C
Serial bus bitrate	153600 – 614400 bps
Mounting	DIN-rail
Dimensions	4.6” x 3”
Controller I/F	DB25 SDLC
Detector I/F	RJ45 Ethernet

Key Features and Advantages

- **TS2 and ATC Compatible** — Works seamlessly with both TS2 and ATC cabinet standards
- **64 (BIU) and 120 (ATC) Detector Channels** — High channel density supports complex detection zone configurations
- **32 Status Channels** — Monitors Red, Yellow, and Green signal states per phase
- **Fail Safe / Fail Secure** — Configurable fault behavior to meet local traffic agency requirements
- **Call Hold on Red, Release on Green** — Optional intelligent call management reduces unnecessary extensions and improves intersection efficiency
- **Custom SIU/BIU Address Setting** — Flexible addressing simplifies integration into existing controller configurations
- **SDLC Diagnostic Mode** — Built-in diagnostics streamline installation verification and field troubleshooting
- **Standards based Interfaces** — Communicates to Controller via standard SDLC bus using DB25 connector and up to 4x PX150 radar detectors via 10/100 Ethernet.



Simple Configuration UI Allows Detection Zone to BIU/SIU Channel Mapping

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