

# Traffic Controllers for Traffic Operations

## The 2070-2B+

**Safetran**  
BY ECONOLITE

Safetran 2070-2B+, a 2070 TEES compliant, two-channel, SDLC serial module, provides a traffic controller with the necessary interfaces to operate a NEMA TS2 or ATC cabinet. This provision also **enables an ATC cabinet configuration for an ATC controller in a NEMA shelf-mount form factor.**

The 2070-2B+ contains an ATC/TEES conformant, 25-pin, C12S connector that supplies signals to both SB1 and SB2 SDLC channels which drive a 2070-style or ATC-conformant controller, including any member of the Cobalt family of ATC controllers.

The capabilities of this module help improve a traffic controller's functionality and provide increased intelligence at signalized intersections, enhancing roadway safety and traffic signal operations.





## Hardware Details

The 2070-2B+ module provides a flexible interface to the controller's serial channels, allowing either SP1 and SP2, or SP3 and SP5, to be routed to the SB1 and SB2 channels on C12S. For use in an ATC controller communications slot, select SP1 and SP2 mode. For use in 2070 controllers, select the SP3 and SP5 mode.

## Hardware Features

- Fully TEES compliant
- Front panel SP3 Active switch and LED
- SP3 & SP5 or SP1 & SP2 selectable by internal jumper
- 32-bit ARM microcontroller
- All C12S signals are optically isolated and EIA-485 compliant

## Temperature Specification

- -34.6°F to +165°F (-37°C to +74°C)

## C12S Connector Pinout

C12S Pin Assignment			
Pin	Function	Pin	Function
1	SP5TXD+	14	SP5TXD-
2	SP5RXD+	15	SP5RXD-
3	SP5TXC+	16	SP5TXC-
4	SP5RXC+	17	SP5RXC-
5	SP3TXD+	18	SP3TXD-
6	SP3RXD+	19	SP3RXD-
7	SP3TXC+	20	SP3TXC-
8	SP3RXC+	21	SP3RXC-
9	LINE SYNC+	22	LINE SYNC-
10	NRESET+	23	NRESET-
11	POWERDOWN+	24	POWERDOWN-
12	BIAS +5 VDC	25	EG
13	DCG #2	--	--