



Data Aggregator DA-500E for Centracs® SPM & Aries

A data and communications-rich hardware platform that transforms legacy or isolated traffic cabinets into dedicated real-time traffic data reporting and count stations

iCITE® Data Aggregator DA-500E is a hardware platform that interfaces with traffic controllers, communications-enabled detectors, and MMUs/CMUs at remote or networked intersections. The DA-500E can provide real-time intersection data to your existing ATMS data set, in addition to cabinet health and GPS-based time sync. It easily installs in Type 170/2070, NEMA TS-1, TS-2, ITS or ATC style traffic cabinets, and provides a simplified interface with EDI or Reno A&E MMUs/CMUs, enabling complete data retrieval.

This information is based on what Econolite Centracs® SPM can provide:

Communicating with Econolite Centracs® SPM data analytics, the DA-500E can provide turning movement counts, amber/red actuations, arrivals on red, detector failures, high or low preemption details, communications and power failures/alerts, split and interval timing data, and vehicle travel time. It also provides the Purdue Coordination Diagram (PCD) and the Indiana Hi-Resolution Data Set, tailored to provide Automated Traffic Signal Performance Measures (ATSPM) via the Econolite Centracs® SPM user-friendly interface.









FEATURES

- Data and communications-rich hardware platform
- Transforms legacy traffic cabinets into 24/7/365 count stations
- Easily interfaces with controllers and detectors
- Ability to safely retrieve critical intersection and cabinet data from an MMU/CMU
- Add remote intersection data to your Centracs® SPM data set
- Provides cabinet health and GPSbased time sync
- Capacitor back up for power failure alerts
- Access remote intersections via 4G/ LTE cellular
- Interfaces with Econolite Centracs® SPM, ASC/3 and Cobalt model controllers, and most type 170/2070/ NEMA, ITS, and ATC controllers.
- 5-Band antenna covering GSM/GPRS/ LTE, GPS, Wi-Fi, BlueTooth, DSRC bands
- Shelf or rack-mounted installation

Notes:

Antenna Bracket

If a specific cellular carrier is preferred, or existing service plans will be used for cellular data, please specify carrier at the time of order. In USA only, deeply discounted plans can be provided along with the device from AT&T, T-Mobile, or Rogers. International cellular providers need to be verified for device internal modem compatibility prior to order.

Optional side mount to traffic cabinet

Custom configurations of Analog and Digital I/Os available for volume orders.

FUNCTIONALITY

- Detector information from NEMA TS-1, TS-2, or Type 170/2070 cabinets using RS-485 Serial Communications for up to 32 channels
- Detector and signal information from NEMA TS-2 cabinets using SDLC communications to provide additional data
- Remote access to noninterconnected intersections with 4G/LTE Cellular Communications
- Compatible with High-Speed Wired or Wireless Networks
- Provides back-up of critical communications from intersections that are already connected to a central ATMS system
- Communications and interfaces using encryption
- Provides VPN Network to cabinet / controller
- Cabinet Health Monitors
 - Ambient temperature
 - Battery backup system
 - Heater / fan
 - Cabinet door
 - Stop time
 - AC/DC power
 - Intersection flash
 - Primary communication
 - and more...

