

iCITE™

Intelligent Cabinet Interface to Traffic Equipment

DA-100B™ Data Aggregator

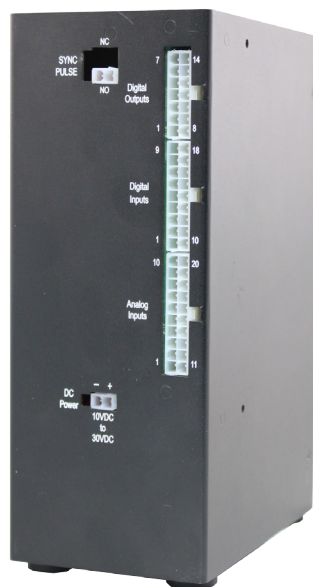
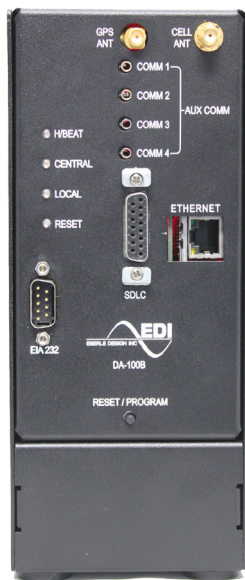
Monitors Virtually All Traffic Cabinet Functions

The DA-100B series Data Aggregator provides a cost-effective, easy to integrate device to monitor virtually all traffic cabinet functions in a single device. It is designed to endure temperature extremes, with low power consumption needs, making it suitable for solar powered applications. Available with a variety of options, that support all high-speed communication methods and traffic cabinet configurations. Specifically designed for the TS-2 environment, it comes equipped with an SDLC port for rapid and easy connectivity to any cabinet so equipped.



FEATURES

- Affordable Cloud-based remote intersection connectivity
- Small form factor – fits in any cabinet
- Wired or wireless high-speed connectivity options
- Compatible with iCITE® G2™ platform
- GPS-enabled for self-locating and mobile position tracking, and controller time clock sync
- Low power consumption
- Internal 12VDC battery back-up for alarms during power failure.
- Provides a time clock for sync pulse inputs to any controller using a NO or NC user



5-Band Antenna Configuration for Cabinet or Bracket Mounted installation.

Wireless Bands Available:

GSM/GPRS/LTE, GPS, BlueTooth, Wi-Fi, DSRC



Connectivity	
Cell Modem	Yes - 3G (AT&T, T-Mobile)
Wi-Fi	No
Ethernet Port	Yes (10/100 Base -T)
EIA 232	Yes
SDLC	Standard
BlueTooth	No
MSRM (4 Ports)	Standard (To Connect to Oracle 2ECX /4ECX)
Cabinet I/O	
Analog Inputs	8 (4 X 120 VAC; 3 X 24 VDC; 1 reserved)
Digital Inputs	8 (4 X 120 VAC; 3 X 24 VDC; 1 reserved)
Time Sync	NO and NC with user selectable time and length
Digital Outputs	2 (either NO and NC 2A relay; 2 X open Collector)
Miscellaneous	
Operating System	uC/OS-II
GPS	Yes - Geolocation / Time Sync
Operating Temperature	-40°F to 176°F / -40° C to 80° C NEMA
Humidity	5 - 95% Non-Condensing
Dimensions	5.5" X 8.125" X 3.375" / 13.89cm X 20.63 cm X 88.57 cm
Weight	3.6 lbs. / 1.62 Kg
Power Input Voltage	18 - 30 VAC - VDC (2A 250V 5mm X 20mm Fast-blo fuse)
Real Time Clock	Yes
Flash Disk	Yes
Battery Back Up	Yes - allows communications and remote logging
Battery	Non-Spillable Sealed Lead-Acid 12 VDC 1.3Ah
Protocols	
SDLC	Yes - Standard (TS2 or TS2 Type 2 Cabinets Only)
Oracle®	Yes - Standard
iCITE™	Yes - used to connect to iCITE™ G2
Other	
Solar Power Capable	Yes
Scheduling	Yes
Antenna	Yes - 5 or 2 band (Cellular, GPS, BT, Wi-Fi / Cellular, GPS)
Antenna Bracket	Optional top or side mount to traffic cabinet

- Detector information from NEMA TS-1 or Caltrans 33x cabinets using Serial communications with Oracle® Detectors
- Detector and signal information in NEMA TS-2 cabinets using SDLC communications to provide additional data
- Remote access to non-interconnected intersections with 3G/4G/LTE cellular connection.
- Compatible with High Speed Wired or Wireless Communications.
- Provides back-up of critical communications from intersections that are connected to a central system.

*If a carrier is preferred or existing service plans will be used for cellular data, please specify at time of order.

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

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