

# AGC Data Logging System

## MODEL 2680AP



### KEY FEATURES

- Monitors to 32 (-1) or 64 (-2) Telemetry Receiver AGC or Similar Analog Inputs
- Easy-to-use widget based ADAT GUI Set-up and Operations (Strip Charts)
- Records and Displays Time Annotated Log File Excel Compatible File Format
- Quick Visualization of System Performance and Monitored Device AGC status
- 1K/S Sample Rate Per Channel
- 32K S/Sec Sampling Rate for 32 Channels/ 64K S/Sec 64 CH Composite
- 1U Keyboard/Monitor Drawer

### GENERAL DESCRIPTION

The Model 2680AP AGC Data Logger is a stand-alone telemetry data acquisition receiver performance monitoring unit that records and displays time-tagged voltage samples to a log file, or optionally to an IRIG 106 Chapter 4 compliant serial PCM output stream. The 2680AP is configured to input, sample, display, and log to disk time-tagged analog voltages from up to 64 analog sources, such as telemetry receiver AGC monitor outputs. The PCM encode option includes Acroamatics Display and Analysis Tool (ADAT) strip chart display and a widget-based system setup and operations interface. Input source voltages are sampled using a high-performance multi-channel DAQ card with operator programmable A to D sample rates.

System hardware consists of rack-mountable interface panels, 1u (2u for 64 channel version) rackmount host controller enclosure, 1u keyboard/monitor drawer, and all required system interconnect cables. Windows 10 Pro TPM2/Bit Locker compliant System host controller software includes Acroamatics GUI Set-up and Operations software, and Microsoft Excel and Acroamatics' Display and Analysis (ADAT) widget set-up, display, analysis, and operations interface. The system is programmable to support up to 64 data channels (specified at the time of order). CSV format log files record analog levels with IRIG time annotation.



### RELATED PRODUCTS

Gateway	Recorder	Telemetry Data Processor	ADAT

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### TECHNICAL SPECIFICATIONS

#### Input:

Sources: 32 (or optionally 64) AGC or Similar Analog channels, single-ended 75 / 50 Ohm  
Sample Rate: 1K S/Sec per Channel; 32K S/Sec 32 CH/64K S/Sec 64 CH Composite, 16-Bit resolution  
Voltage Range: 0.1V, +1V, +5V, or +10V SW Selectable

#### Operator Display & Control:

Status: Voltage level by channel, user selectable scan rate  
Setup: Channel ID Name Assignment, Scale (V or Dbm), Time Annotation, Scan Interval  
Software: System software includes ADAT-AGC (Acroamatics Display and Analysis Tool with AGC recorder plug-in), MS Office, under user choice of Win10 Pro 64-Bit or Enterprise LTSC (Enterprise must be joined to user's MS Win 10 Enterprise license within 60 days of delivery).

#### Output

Log File: IRIG time annotated Log File Output: Excel Compatible CSV containing time annotated samples at selected scan Rate.  
PCM Stream Output: IRIG CH4 PCM containing frames of time annotated samples at the selected scan rate.  
Option to record live PCM to local SSD for mission playback.

#### Time:

Time: Time Input: IRIG A, B, or G

#### Physical

Sig I/O & Adapter: 19.0W X 1.75 H X 7.4 in. (two each 32 channel, four each 64 channel)  
Material / Finish: 18 Gage Mild Steel / Powder Coat, Black  
Chassis:  
Physical: 2U (64 ch) or 1U (32 ch) rack height x 19.0" (48.26cm) W x 13.3" (33.8cm)  
Display: Dual DisplayPort (DP) rear panel Monitor Out  
Backplane: Three PCIe Telemetry Card Slots  
Processor: Intel CoreTM i7 3.4 GHz system and host processor w /TPS-2  
Networking: Dual Ethernet 10/100/1000BT  
USB: 4x USB 2/3 (2 rear panel & 2 front panel mounted)  
Memory: 32 GB (min) DDR3 SDRAM  
Storage: 2.5" 1 TB SSD drives - Front panel removable (4 drive slots - 2 populated)  
Power: 100-240V 47-63 Hz Power, ~1.5 A Max - may vary with configuration  
CD/DVD: Slim slot-loading CD/DVD burner/player  
Signal IO: BNC/Triax rear panel-mount, assignable to TM cardset requirements (32 max connections)  
O/S: Window 11 Pro, 64-Bit, LTSC Enterprise SHB compatible and tested for STIG compliance  
Environmental Shock: Operating 6G, Non-Operating 50G  
Vibration: Operating 0.5G, 5 to 2000 Hz, Non-Operating 1.2G, 5 to 500 Hz  
Temperature: Operating 0 to +40C  
Non-Operating -40 to +86C

## ADAT DISPLAY SOFTWARE

The Model 2680AP provides users a convenient graphical operator interface that records time tagged voltage samples from a high performance DAQ Device to a log file. Up to 32 (or optionally 64) named analog inputs can be logged at a scan rate configurable from 1,000 times per second to once per second. System configurations may be stored and recalled as desired. Once per scan period, the 2680AP writes the voltages to the log file along with a time stamp. Data is time stamped with IRIG synchronized time. At the end of acquisition, the CVS log file can be opened in Excel or other 3rd Party tool for viewing and analysis.



*Recognizing that no standard product fits every mission, Delta Telemetry Systems is ready to deliver tailored solutions for your unique application requirements.*

*Specifications subject to change without notice.*

