

## INTRODUCTION

AntiLog is the ideal way to record all your RS232 data without requiring PCs, laptops or hand held computers. This simple to use, high performance unit can log up to two channels of serial port data at the same time as soon as you press the 'On' button. Push the 'Off' button to stop logging. Repeat as many times as you like to append to the store – it's as simple as that!



Hold the 'On' button down until the LED lights green (just under 2 seconds) to put the unit in playback mode. Playback mode allows you to configure your unit using an easy to use terminal menu system. Recorded data can be replayed or upload to a PC, PDA, Laptop or other host machine of your choice. Data can even be played back in 'real time' on up to two RS232 output channels simultaneously to simulate real equipment output.

## APPLICATIONS

- Recording important civil or military GPS receiver trials data on location.
- Logging output from equipment types in ASCII, binary or any other format.
- Monitoring traffic in both directions on an existing RS232 link.
- Recording two equipment outputs which need a common time stamp reference.
- Recording data from equipment that needs to be polled for readings.
- Completely unattended data logging in remote locations.
- Trials where important events need to be logged using operator button pushes.
- Applications that require data to be collected by non-technical staff.
- Ideal for applications that do not have a local source of power for logging.

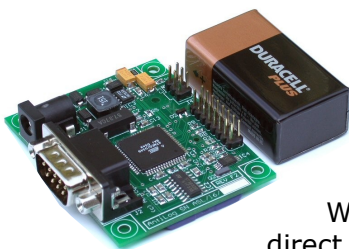
## FLEXIBILITY

AntiLog can record ALL RS232 data transmitted by your RS232 data sources. It does not suffer from data resolution problems experienced by other RS232 data logging solutions which attempt to convert the data before storing it. You can also pre-select, sub sample, filter and time tag incoming data streams independently on up to two recording channels. You can even transmit user defined commands back at your equipment during record either by pressing the front panel buttons or have AntiLog automatically send commands at user defined rates (ideal for taking measurements from equipment which requires data polling).

The built in Real Time Clock allows time tagging of logged data. A Military option ('M') is available to add one touch recording of Military/Government GPS receivers (e.g. ICD-GPS-153). The bootloader, standard on all units, allows the embedded software to be upgraded to the latest release from plain text files which can be supplied over the Internet.

## CONFIGURATION

You configure AntiLog for your needs using a serial port terminal program (e.g. Microsoft HyperTerminal supplied with Microsoft Windows™). Use the intuitive menu system you see on the terminal screen in the playback mode to set your options. All settings are non-volatile, so there is no need to reprogram the unit even if all sources of power are removed.



## OEM

AntiLog is also available as an OEM board to allow you to embed a high quality, dual port data logging solution into your product. With the OEM design, you also have access to CMOS RS232 levels for direct connection to OEM equipment (such as OEM GPS receivers).

## ANTILOG V4.3 STANDARD FEATURE SUMMARY

All OEM and boxed AntiLog products are supplied with the following features as standard:-

### General Features

- Cost effective, complete data logging solution.
- Single or Dual port RS232 data logging available in the one box.
- Both serial ports available from front panel 9 way D connector with adapter cable.
- Fully unattended operation possible including automatic power and log file shut down.
- Up to 4GByte non volatile storage options supported.
- At least 60 hours of recording time possible from a single PP3 Alkaline battery
- Extended operation possible with long life PP3 Alkaline cells.
- Dynamic battery health check via menu system with terminal load voltage report.
- Dynamic power management saves power when using slower baud rates.
- Can operate from an external DC power source in the range 4.5 to 18V.
- File system supports real time date and time tagging of session and event information.
- Media recovery feature for comprehensive data recovery.
- OEM product allows access to CMOS 3V3 RS232 levels (secondary port only).
- Built in system 'bootloader' to allow embedded software upgrades via the serial port.

### Recording Features

- Records ASCII, binary or any other data combination as standard.
- Can log 230,400 baud data at full rate (no handshaking required) with suitable media.
- Full rate data capture possible from two 115,200 baud data sources at the same time.
- Selected GPS NMEA sentences can be logged using the built in NMEA sentence filters.
- Intelligent data frame sub-sampling for ASCII line formatted data sources (e.g. NMEA).
- ASCII line data can be time tagged with millisecond resolution.
- Binary data can be time tagged using 'N' byte time tagging mode.
- User equipment commands can be sent at user defined rates (equipment polling).
- Can log 'user events' during data logging using the 'On' and 'Off' buttons.
- Can log the logical state of selected digital input lines during record.
- Independent equipment polling and button event logging for both recording channels

### Playback Features

- Full rate RAW playback available.
- 'Real time' playback (including dual serial port) to simulate original equipment output.
- Playback can be synchronised to external event input (wait on hardware pulse).
- Hexadecimal playback mode to display recorded data as an ASCII hexadecimal dump.
- Hexadecimal playback mode can show recorded time stamps before each data block.
- Selectable RTS/CTS handshaking for playback (single serial port mode only).
- Session headers and time stamp date and time can be embedded in output stream.
- ASLTx Data Transfer protocol built in for uploading recorded data to a host machine.

### Configuration Features

- Independently programmable transmit and receive baud rates from 110 to 460,800.
- User selectable parity, data bits per character (5 to 8) and stop bits.
- Independent non standard baud rate support per channel (e.g. 11111 baud).
- Complete sets of user options can be saved with a name and recalled for later use.
- Up to four user equipment commands can be stored for output during record mode.
- Time transfer function to accurately transfer time and date to another AntiLog unit.

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## TAILOR MADE OPTIONS

AntiLog V4.3 provides an extremely comprehensive set of features as standard but additional 'Option Packs' available from your AntiLog supplier extend the capabilities still further. Hardware options are generally only available from your AntiLog supplier but software options can be installed after purchase using the built in bootloader application.



### Hardware Option 'P': Forced Power (OEM only)

- Starts recording data as soon as power is applied.
- Power may be removed and reapplied at any time to record more sessions.
- Suitable for power sources in the range 10V to 18V.
- 'On' and 'Off' buttons still function to record events and transmit equipment commands.
- Ideal for deeply embedded systems where user interaction is not possible.

### Software Option 'M': Government and Military GPS receiver logging

- Includes all standard features available in AntiLog.
- ICD-GPS-150, ICD-GPS-153 (ICD-GPS-15x) data stream compatible.
- Two sources of ICD-GPS-15x data can be recorded at once with independent settings.
- Time tagging of all IP messages available to millisecond resolution.
- Message 'autoconnect' feature to automatically request user selected message IDs.
- Automatically sends out acknowledgements in response to acknowledge requests.
- Button events and selected digital input lines can be inserted as IP messages.
- Compatible with RS232 output from SPGR, PLGR, DAGR and similar GPS receivers.
- Selectable 'Real time' playback of ICD-GPS-15x data which can use time tag data.

### Software Option 'D': Force Dual Port Operation

- Forces dual port operation when factory defaults are applied instead of single port.

### Software Option 'L': Menu Baud Rate Lock

- Prevents a baud rate reset using the 'On' button at start up if settings lock is active.

### Software Option 'X': Extended 'On' button Playback delay

- 'On' button delay required to activate playback mode extended from 1.75 to 5 seconds.
- Reduces chance of inexperienced users accidentally starting AntiLog in playback mode.

### Software Option 'N': Nolog

- Unit works in record mode without media present (no data recording desired).
- Can be used to configure equipment with user commands in record mode.
- Ideal for use with 'M' option for configuring ICD-GPS-153 GPS receiver block output.

### Software Option 'S': Security

- Adds user password protection for controlled access to the terminal menu system.
- Prevents unauthorised unit configuration inspection or change.

## DON'T RISK LOSING YOUR IMPORTANT SERIAL PORT DATA!

For more information please visit [www.anticyclone.co.uk](http://www.anticyclone.co.uk) or email [info@anticyclone.co.uk](mailto:info@anticyclone.co.uk)

*Detail may be subject to change without notice. Data applicable to AntiLog boxed and OEM products with embedded software release 4.3*

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