

# ATM-1

## Automotive Trigger Module



### Features

- Monitors automotive serial buses, producing trigger output for oscilloscope capture of bus waveforms
- Works with Tektronix® DPO7000 and DPO/DSA70000 oscilloscopes having Tektronix® TDSVNM CAN and LIN Timing and Protocol Decode software\*
- TDSVNM software supports eye diagram, propagation delay, oscillator tolerance, datarate, bus traffic loading and wakeup-time measurements, along with simultaneous CAN & LIN bus protocol decoding and display
- Deep-storage protocol analysis supported through connection to optional Tektronix® logic analyzer\*\*
- Supports probing of high-speed CAN, fault-tolerant CAN and single-wire CAN bus systems
- Passively monitors CAN bus protocol, optionally signals out (CAN Acknowledge, Error Frame, etc.)
- Optionally supports probing of LIN bus systems\*\*
- Model ATM-1-GI provides galvanic isolation between the system-under-test and the oscilloscope or the logic analyzer
- Front-panel LED provides module status information
- Front-panel 25-pin D-Sub connector for bus-under-test connection
- Rear-panel trigger input and trigger output BNC connectors
- Rear-panel full-speed USB2.0 connection for module control and power from the oscilloscope or logic analyzer
- Rear-panel power connector for powering from optional external power supply
- Oscilloscope trigger output can trigger on bus conditions using multiple trigger states and multiple conditional clauses per state; conditional trigger state actions include start, stop, increment, decrement and reset of trigger module counters and timers
- In-the-field firmware upgrading supported via USB connection
- Compact form factor 5" x 4.2" x 1.3" (12,7cm x 10,7cm x 3,3cm) extruded aluminum case
- Provided with mating 25-pin connector, BNC and USB cables, and CDROM with users' manual & support files
- Optional cable assembly provides wired mating connector and flying leadset, used with optional grabber clips

• **HARDWARE & SOFTWARE PRODUCTS FOR USE WITH TEKTRONIX® LOGIC ANALYZERS & OSCILLOSCOPES** •

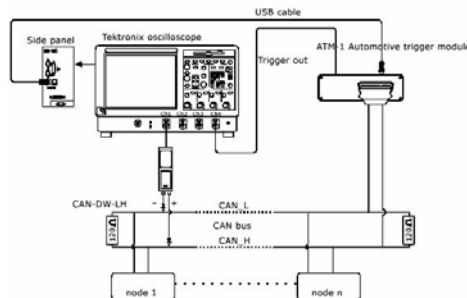


## ATM-1 Products Ordering Summary

- ATM-1: Automotive Trigger Module\*
- ATM-1-GI: Automotive Trigger Module with Galvanic Isolation\*
- ATM-1-Cable-BNC: 1-meter BNC cable (provided with ATM-1/ATM-1-GI)
- ATM-1-Cable-USB: 1-meter USB cable (provided with ATM-1/ATM-1-GI)
- ATM-1-Connector: 25-pin D-Sub mating connector (provided with ATM-1/ATM-1-GI)
- ATM-1-Leadset: Optional wired mating connector with 0,5-meter flying leadset
- ATM-1-Clips-10: Optional grabber clips, set of ten (10), for use with ATM-1-Leadset
- ATM-1-Bundle: ATM-1 (including usual accessories, as above), ATM-1-Leadset and ATM-1-Clips-10
- ATM-1-GI-Bundle: ATM-1-GI (including usual accessories, as above), ATM-1-Leadset and ATM-1-Clips-10
- ATM-1-PS: Optional 5V universal switching power supply (5" x 2.5" x 1" (12,7cm x 1cm x 0,4cm))
- ATM-1-PC-<Country>: Two-wire AC power cord for use with optional power supply (country-specific)
- ATM-1-LIN-TRIG: Optional license required for enabling LIN bus-responsive trigger output
- ATM-1-LIN-CONFIG: Optional license required for ATM1LinTrigger module-configuration application
- ATM-1-TLA-CAN: Optional license required for enabling CAN protocol output to logic analyzer

\*Tektronix® TDSVNM software is required for ATM-1/ATM-1-GI control when using the TriggerOut signal (e.g., for oscilloscope triggering), but is not required for logic analyzer applications not utilizing an oscilloscope

\*\*Functionality requiring feature-specific licensing, not included in the cost of the basic ATM-1/ATM-1-GI



## Contact Crescent Heart Software

- Internet: [www.c-h-s.com](http://www.c-h-s.com); E-mail: [sales@c-h-s.com](mailto:sales@c-h-s.com); Voice: (+1)503-232-2232; Facsimile: (+1)503-232-2255
- Crescent Heart Software, a Tektronix® Embedded Systems Tools Partner and a member of the Tektronix® Logic Analyzer Third Party Developer team, is headquartered in Portland, Oregon, USA.
- Information presented herein is subject to change without notice (datasheet Revision K, May 2007)

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