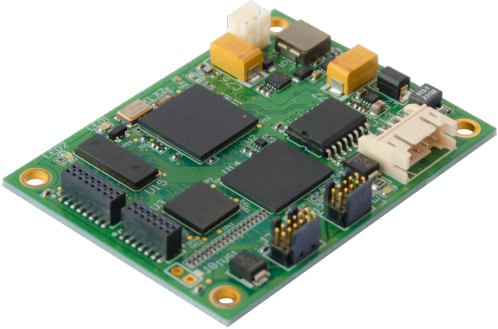


A8 Serial Interface Module

The A8 is ATI's next generation of ECU calibration interfaces used to read data from and write data to the ECU's microprocessor memory regions. Built for automotive environments, the A8 was specifically designed for flexibility, ease of use, and speed of data.

Keeping up with technology, the A8 supports the latest microprocessors through debug interfaces, such as OCDS, Nexus, and DAP2, attributable to the embedded software and modular hardware-base design. Additional processors can be supported based on customer requests.



Features

- Support for high speed ECU data acquisition, calibration and flashing
- Fast validation and synchronization of ECU code/calibration data
- Dynamic data rates allow easier configuration of the ECU acquisition

Dynamic Overlay Support Features

- Allows the calibration memory to be larger than emulation memory
- Permits tool-controlled dynamic initialization of calibration data
- Requires no ECU code changes for calibration

Intelligent Flashing

- Optimized intelligent flashing algorithms that shorten flash time and minimize memory degradation caused by repeated flashing operations
- Inherent protection of reserved memory regions during flash operations
- Enhanced handling of memory region checksums to provide quick synchronization between the A8 and the ECU
- Built-in brain dead flashing

Power Management

- Minimal current draw from target
- Low current sleep mode
- Externally powered to enable asynchronous data acquisition before the ECU code initializes (near instantaneous data acquisition)

Microprocessor Support Chart

Microcontroller Family	Interface
Freescal	
MPC5xxx	JTAG Interface
S12x	JTAG Interface
Infineon	
TriCore TC17xx/TC2xx	OCDS Interface
Renasas	
V850	NBD Interface
SH2/SH2A	AUD/AUD II Interface
M32R	RTD and/or JTAG Interface
V850E2	JTAG Interface

Please contact your sales representative for specific part numbers.



A8 Serial Interface Module Specifications

Configuration	
Supported Microprocessors/ Interfaces	Infineon TC17XX and TC2XX (AURIX) OCDS JTAG Infineon TC2XX (AURIX) DAP2* Freescale MPC5XXX* (Can support most processors with a real-time debug port.)
Application Interfaces	VISION Calibration and Data Acquisition Software (version 3.7.3 or later) VISION API for user developed applications XCP and other Industry standard protocols*
Indicator	
LEDs	(4) Power and Activity Status
Input/Output	
PC Interface	USB 2.0 full speed at 12 Mbps (connected directly to the PC) and Ethernet*
Performance	
Data Rate	Minimum 75 data items @ 500 μ s
Number of Data Items	1200
Sample Time Period	500 μ s
Simultaneous DAQ Rates	32 dynamic*
Operating Conditions	
Power Supply	External source of 5 to 30 VDC
Operational Current (average)	65 mA
Quiescent Current Draw	9 μ A
Temperature Range	-40 °C to +105 °C / -40 °F to +221 °F
Mechanical	
Dimensions	PCB: 60.1 x 45.7 x 10.6 mm / 2.37 x 1.80 x 0.42 in
Weight	105 g / 3.70 oz

* under development

A8 Accessories

Part Numbers		
Power Cable		
150-0073	1.83m/6ft	Cable; DC Power LEMO 0B 3-pin plug to Banana Jacks
USB		
150-0066-12IN 150-0066-8FT	30.5cm/12in 2.4m/8ft	Cable; USB-A to LEMO 0B 5-pin plug
150-0118-4.3FT 150-0118-6.6FT 150-0118-8FT	1.31m/4.3ft 2m/6.6ft 2.44m/8ft	Cable; USB-A plug to LEMO 0F 5-pin plug
150-0181-8FT	2.44m/8ft	Cable; USB-A to LEMO 0B 5-pin plug shield connected
150-0182-8FT	2.44m/8ft	Cable; USB-A to LEMO 0F 5-pin plug shield connected
Internal		
150-0187-5IN	12.7cm/5in	Cable; USB LEMO 0F 5-pin socket to JST 10-pin plug
150-0186-5IN	12.7cm/5in	Cable; USB LEMO 0B 5-pin socket to JST 10-pin plug
150-0119 150-0125	17.7cm/7in 0.3m/12in	Cable; Power JST 2-pin plug unterminated
150-0191-10IN	25.4cm/10in	Cable; Coldstart 6-pin JST to 1 wire unterminated
150-0195-5IN	12.7cm/5in	Cable; 10-pin header to 16-pin OCDS

Accurate Technologies Inc. is continually improving its products and reserves the right to alter the specifications of its products at any time without notice.

Contact ATI Sales at:

sales@accuratetechnologies.com

France +33 (0) 1 72 76 26 10

Germany +49 (0) 89 9700 7121

India +91 80 41694218

Japan +81 3 5325 6222

Sweden +46 (0) 31 773 7140

UK +44 (0) 1767 652 340

US +00 (1) 248 848 9200