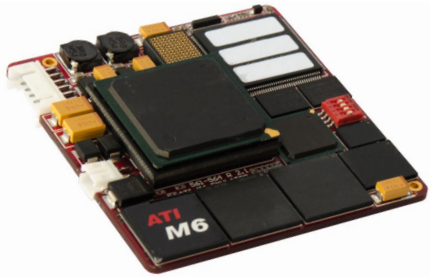


M6 Memory Emulator



Achieve typical measurement rates of 300 to 400 data items every 10 msec with exact time stamp accuracy using M6 Memory Emulators for calibration of ECUs.

This competitively priced, stand-alone solution with built-in USB interface provides full, plug and play compatibility without the need for any additional hardware or external modules. After connection of the M6 to the USB port, VISION™ software is used to easily configure the system for calibration.

Features

- M6 supporting the Freescale PowerPC MPC5XX Product Family
- M6V supporting the Freescale MPC5500 and MPC5600, VertCal compliant Product Family

Microprocessor Support Chart

| Microcontroller Family | Interface |
|------------------------|---|
| Freescale | |
| MPC5xx | Data and Address Bus |
| MPC5xxx | Data and Address Bus; Standard Vertical Interface |
| Infineon | |
| TriCore TC179x | Data and Address Bus |

Please contact your sales representative for specific part numbers.

M6 Assembly



M6 Memory Emulator Accessories

| Part Numbers | Length | Description |
|--|--------------------------------------|--|
| Power Cable | | |
| 162-0020 | | M6 Isolated Power Supply |
| 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 |
| 150-0171-8FT | 2.44m/8ft | Cable; USB/Power USB-A/Ring Terminal to LEMO 1F 8-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 |
| 150-0162-8FT | 2.44m/8ft | Cable; USB / Power USB-A / Banana to LEMO 1F 8-pin plug |
| Internal | | |
| 150-0119 150-0125 | 17.7cm/7in 0.3m/12in | Cable; Power JST 2-pin plug unterminated |
| 150-0129-5IN | 12.7cm/5in | Cable; USB LEMO 0B 5-pin socket to JST 12-pin plug |
| 150-0159-5IN | 12.7cm/5in | Cable; JST 12-pin plug to LEMO 0F 5-pin socket |



M6 Memory Emulator Specifications

| Configuration | |
|------------------------------|---|
| Microcontroller Types | M6-555: MPC555, MPC556 M6-563: MPC561, MPC562, MPC563, MPC 564 M6-565: MPC 565, MPC566 M6V: Freescale MPD5554/5553/5534/5533 M6T: Infineon M6T-TC179X: TC1796 Available with processor installed or processor socket |
| ECU Connection | Plugs into mating ECU processor socket |
| ECU Adaptation | The chip selects and microcontroller bus are configurable to allow the M6 to be adapted to various ECUs. |
| ECU Programming | Capable of programming internal and external ECU flash memory stand-alone (no need for separate flashing tools) |
| Memory | |
| Memory Access | 8-bit, 16-bit or 32-bit burst data or asynchronous access Bus voltage 2.6 V or 3.3 V based on CPU (M6 is 5 V tolerant) |
| Emulation Memory | (2) separate banks of 1MB (for calibration bank swapping) |
| Data Acquisition Memory Size | 512 Kb of dual-port RAM |
| On-board Flash Memory | 8 MB flash for non-volatile emulation memory storage |
| Min Memory Access Time | 16 ns |
| Calibration A/B Comparison | External switch input for selecting between two calibration data sets for comparison purposes without the need of a PC |
| Special Capabilities | |
| Power on/off | External wake-up and self-shutdown (e.g. vehicle cold-start) |
| Operation Conditions | |
| Communication | PC interface: USB full speed at 12 Mbps To other ATI hardware: CAN standard ISO11898 |
| Power Supply | 6-18 VDC (2 power inputs provided, one for internal ECU connection, and one for optional external power supply) |
| Max Supply Current | 400 mA at 12 VDC |
| Temperature Range | -40 °C to max +110 °C (85 °C normal) -40 °F to max +230 °F (185 °F normal) |
| Mechanical | |
| Dimensions | 64 x 61 x 7 mm / 2.52 x 2.4 x 0.28 in (without CPU socket) |
| Construction | Special high temperature PCB material, humidity and vibration resistant |

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