

CANary

Compact CAN Interface



CANary and CANary FD are pocket sized CAN interfaces for ATI's VISION Calibration and Data Acquisition system. Both use multiple channels to bridge full bandwidth CAN data between ATI's data acquisition hardware, ECUs, or other CAN devices that are compatible with VISION Software. Both interfaces offer native support of ATI's EMX Data Acquisition Series for improved data synchronization.

The **CANary** communicates with the PC using Full-Speed USB (12Mbps) and has two high speed CAN channels. Both CAN channels are electrically isolated from the USB connection and have internal bus termination which can be set or unset by VISION.

The **CANary FD** is designed to handle the increased data available on CAN FD networks while retaining the compact size of the original CANary. The CANary FD communicates with the PC using high-speed USB (480Mbps) and has four CAN FD channels. The channels have independent galvanic isolation and integrated physical switches for bus termination.



CANary FD boasts integrated physical switches for bus termination for each channel

CANary Features

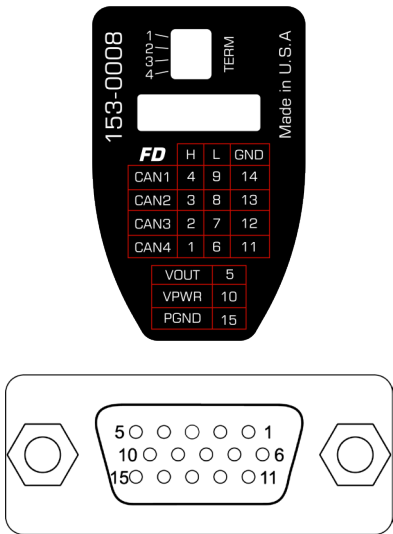
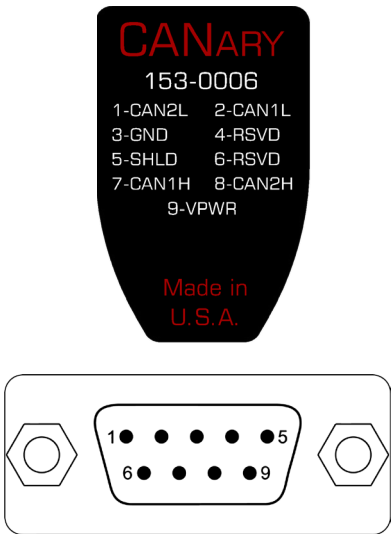
- Provides 2 channels electrically isolated from channel to USB
- Capable of operating all channels at full bus load and maximum bit rate simultaneously

CANary FD Features

- Provides galvanic isolation from channel to channel as well as channel to USB
- Capable of operating all channels at full bus load and maximum bit rate simultaneously



Specifications

| | CANary FD | CANary |
|-----------------------------|---|---|
| Configuration | | |
| Application Interface | VISION Calibration and Data Acquisition Software | |
| Compatibility | VISION 5.2+ | VISION 4.0+ |
| Indicators | | |
| LEDs | (1) Power status (4) Communication status | (1) Power status (2) Communication status |
| Operating Conditions | | |
| CAN Modes | CAN FD and CAN 2.0B | CAN 2.0B Only |
| CAN Channels | 4 | 2 |
| Isolation | 4 Independent galvanically isolated channels | USB connection is isolated from the CAN channels |
| CAN FD Modes | ISO 11898:2015 up to 8Mbps data phase Non-ISO/Bosch 1.0 up to 8Mbps data phase | N/A |
| Connectors | To PC: 1 USB B Connection (high-speed 480Mbps) To CAN hardware: HDB15F | To PC: 1 USB B Connection (full-speed 12Mbps) To CAN hardware: DB9-M |
| DC Power | Via USB or VPWR pin on CAN connector (7.0 to 30Vdc) | Via USB |
| Temperature Range | -40 °C to +85 °C / -40 °F to +185 °F | |
| Warranty | 1 year | |
| Mechanical | | |
| Construction | IP40 Composite enclosure | |
| Dimensions | 38.7 x 61.8 x 21.9 mm / 1.52 x 2.43 x 0.86 in | 38.0 x 64.2 x 20.4 mm / 1.5 x 2.46 x 0.8 in |
| Weight | 31.8 g / 1.12 oz | 28.3 g / 1 oz |
| Pinout |  |  |

CANary Order Information

| Part Numbers | Description |
|--------------|----------------------------|
| 153-0006 | CANary interface Module |
| 153-0008 | CANary FD interface Module |

Accessories

| CANary FD | | |
|--------------------------------|-------------|---|
| Part Numbers | Description | |
| USB/Power | | |
| 150-0002 | 10ft | Cable; Rugged USB A-B; connectors supports -40 °C to 105 °C |
| I/O Cables / Connectors | | |
| 150-0233 | 10in | 4 channel CANary FD to 9-pin breakout cable |

| CANary | | |
|--------------------------------|-------------|--|
| Part Numbers | Description | |
| Communications | | |
| 153-0100 | | Adapter; CANary Instrumentation Adapter replaces connections normally provided by VISION Hub |
| USB/Power | | |
| 150-0002 | 10.1m/10ft | Cable; Rugged USB A-B; connectors supports -40 °C to 105 °C |
| I/O Cables / Connectors | | |
| 150-0196-6IN | 10in | Cable; CANary CAN splitter |

*Note: The CANary cannot be used in standalone mode with the Voltage Output Module or Vehicle Information Display (without a PC running VISION).

Email ATI Global Sales at :
sales@accuratetechnologies.com

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|----------------|-----------------------|
| US | +00 (1) 248 848 9200 |
| China | +86 138 1023 6357 |
| France | +33 (0) 1 72 76 26 10 |
| Germany | +49 (0) 89 9700 7121 |
| India | +91 80 41 69 42 18 |
| Japan | +81 3 53 25 62 22 |
| Sweden | +46 (0) 31 773 7140 |
| UK | +44 (0) 1767 652 340 |



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