



TITAN WIFI Recorder

CAI16VRW-03

Wireless
Data Acquisition Recorder



Key Features:

- Wireless stand-alone recording for up to 16 channels
- High performance analog front-end with full Balance and Calibration loopback features
- Battery powered operation supported
- Interfaces with other Titan products to provide up to 128 analog channels, plus digital channels
- IMU recording supported
- Analog Sensor inputs via DB9 connection
- Compact size, light weight and low power consumption make the device suitable for in-vehicle applications

Applications:

- Durability & Fatigue
- Vehicle Dynamics
- Acoustics
- Noise & Vibration Analysis
- Ride Quality Assessment
- Shock

Specifications:

<i>Number of Channels</i>	16 fault-tolerant channels on twin DB9 connectors
<i>Sample Rate</i>	High Speed Operation: up to 8,192 samples per second per channel (1 device) up to 2,500 samples per second per channel (3 devices) Low Speed Operation: up to 1200 samples per second per channel
<i>Resolution</i>	Utilizes 24-bit A/D converters; 16-bit exported
<i>Programmable Gain</i>	From ± 1 to ± 8 ($\pm 8V$ Full scale input voltage maximum)
<i>Programmable Filter</i>	10 pole Linear phase tracking filter for scan rates up to 10K samples/second 8 pole Butterworth for scan rates up to 1200 samples per second
<i>Calibration Modes</i>	Voltage (VCal): Precision positive and negative calibration voltages provided
<i>Analog Sensor Support</i>	Tachometer / Totalizer (frequencies up to 7KHz) ICP Sensors: 2.5mA current @20V compliance
<i>IMU</i>	Embedded support for the Lord Microstrain 3DM-GX5 Inertial Measurement Unit
<i>Recording Media</i>	64GB (non-removable)
<i>Power Requirements</i>	9-18 VDC
<i>Battery Operation</i>	Approximately 4.5 Hrs
<i>Dimensions</i>	12 cm x 10.6 cm x 3 cm (antenna not connected)
<i>Breakout Cables</i>	Included