



## DataBridge™ SDR-OEM-CF

### Single-Board Serial Data Recorder

Now with on-board  
DC/DC converter  
for 7-18 VDC input

- Low-power
- Low-cost
- Small footprint
- Zero development time
- Records PC-compatible files

**A**cumen Instruments Corporation is pleased to announce its DataBridge SDR-OEM-CF — another way Acumen Instruments makes it easy to add data storage to any device or system.

The SDR-OEM-CF is a single module that captures data from any device equipped with a serial port and stores it in a PC-compatible file on a CompactFlash card.

#### **No programming required.**

The SDR-OEM-CF is a hardware solution that is ready to deploy. Unlike competing solutions, no programming is required, and you don't need to install special application software. Configuration can be changed using any computer's serial port.

Because the SDR-OEM-CF records data to PC-compatible files, using an inexpensive CompactFlash reader or PCMCIA adapter and your files appear on standard drive letter.

If you already use a computer or laptop for data collection, the SDR-OEM-CF is a convenient drop-in replacement.

#### **Low power consumption.**

The SDR-OEM-CF offers significant power savings over embedded PC's and RTOS solutions, so batteries last 10 to 100 times longer and no heat is generated. The SDR-OEM-CF operates from a single power supply, simplifying system integration.

#### **The flexibility you need.**

At Acumen, we know every application has unique requirements. For devices that require it, the SDR-OEM-CF can send commands to the attached device on initialization, shutdown, or at specific intervals. You also control when files are opened and closed, how files are named, and date/time stamping.

Using the SDR-OEM-CF's configuration port, you can connect to a computer to control and monitor your recording, download files, change recording settings, or communicate with your device using serial passthrough mode.

#### **Choose your storage technology.**

The SDR-OEM-CF gives you access to industry-standard solid-state storage devices and hard disk drives in CompactFlash form factors.

#### **Customizable.**

We designed DataBridge SDR products with customization in mind. Acumen's modular architecture allows us to tailor the SDR-OEM-CF's capabilities to meet your exact needs. Options such as analog and digital inputs, alternate data formats, and on-board data reduction are available. Contact us to discuss your requirements.

#### **See it for yourself.**

The DataBridge SDR-OEM-CF starter kit includes everything needed to incorporate the SDR-OEM-CF or the DataBridge IC in your application today. See our web site or contact Acumen Instruments Corporation for details.



# DataBridge™ SDR-OEM-CF

## Single-Board Serial Data Recorder

### Specifications

#### Data rates

2400 bps to 230.4 kbps

#### Handshaking modes

RTS/CTS (hardware handshaking)

#### File format

PC-compatible (DOS FAT16 file system)

#### Storage device compatibility

Devices conforming to the CompactFlash specification

#### Electrical interface

ATA/ATAPI (True IDE Mode)

#### Storage capacity

Limited only by storage device and FAT16 file system

#### Power requirements

5 VDC  $\pm$  5%, 30-50 mA (not including storage device)  
or 7-18 VDC (via on-board DC-DC converter) **NEW!**

### Physical Characteristics

#### Dimensions

4.50" L  $\times$  3.00" W  $\times$  0.75" H  
(11.43 cm  $\times$  7.60 cm  $\times$  1.71 cm)

#### Weight

3.0 oz (85.0 grams)

#### Serial connectors

DB9 male (DTE data port)

DB9 female (DCE configuration port)

#### Drive connectors

Type I/II CompactFlash connector with ejector

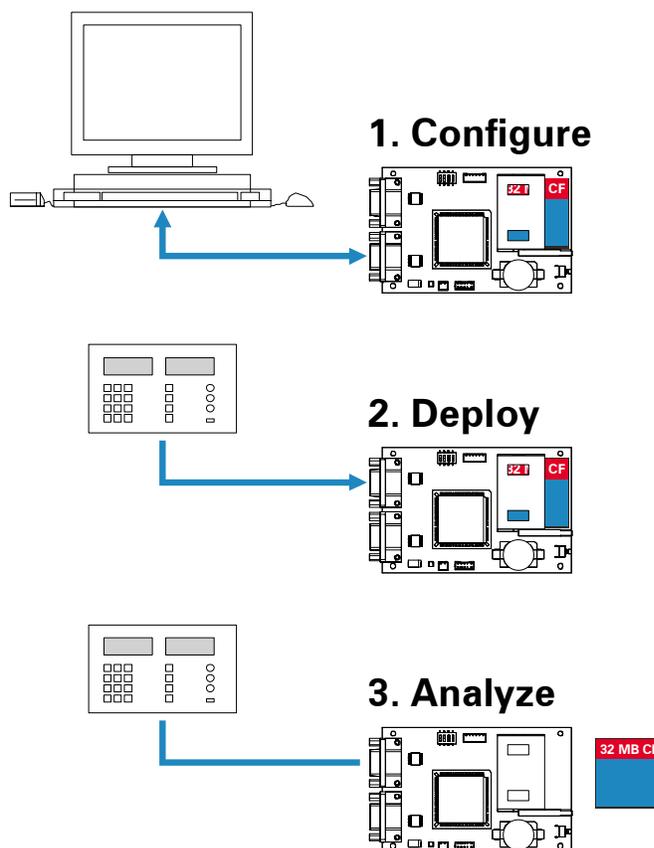
### Media Options

#### Solid-state media

CompactFlash media - 8 to 512 MB

#### Hard drives

IBM Microdrive - 170 MB, 340 MB, 512 MB, 1 GB



### Notable Features

#### Serial download protocols

YModem batch, ASCII text

#### Power-up modes

Resume recording w/new filename, append to file

#### Real-time clock functions

Scheduled file closings every 1 second to 194 days

Optional date/time stamping of recorded data

#### Output messages

8 256-byte strings

1 second to 194 day output interval

(messages can also be sent at initialization or shutdown)

#### Device control

Serial passthrough mode

(converts between baud rates if needed)



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