

# DB-1 Data Bridge

## Multi-interface data converter for RFID and magstripe readers



### Smart Connectivity Solutions

The Linkstream DB-1 Data Bridge is a multi-interface data converter that allows RFID and magstripe reader data to be interfaced to a wide range of systems. From PC's to access control systems, the DB-1 enables integration across disparate systems and interfaces.

The DB-1 has two I/O port connectors offering support for Wiegand, Clock and Data, and RS232 communications. This allows physical connection between the reader and most host based access controllers or as a two reader data combiner. Also included are 2 GPIO ports on each connector that can be used to control user feedback signals on the readers or other purposes. In addition, a USB connection allows for Virtual COM and keyboard emulation interfaces to a host device and is also used for programming the device.

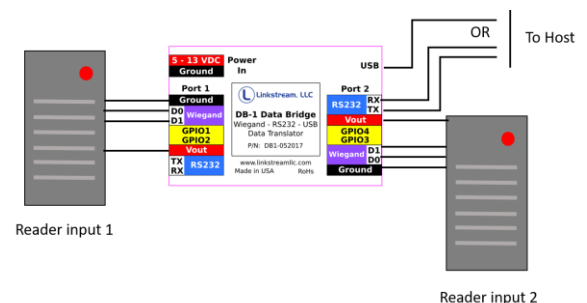
Data received by the DB-1 can be manipulated in virtually any way using its powerful 32-bit processor. Hex – decimal – BCD conversions, adding or filtering for characters, and many bit manipulation capabilities are a few of the most commonly used functions. Linkstream's customization services make all of this available and more through the development of customized firmware.

Field wiring is simple using the pluggable terminal blocks for both interface ports as well as external power. It is housed in a rugged ABS enclosure with clearly marked connections on the top of the device.

**TECHNOLOGY:** Powerful 32 bit processor handles complex communications and bit manipulation functions for virtually every application.

**EASY INTEGRATION:** Rugged housing with pluggable terminal blocks for easy field wiring. Clearly marked signal names reduce wiring errors.

**FLEXIBILITY:** Bit manipulation, filtering, data conversions and various host or controller interfaces are available to connect between the reader and the access control system or to interface two readers to a host.



### Sample Applications Include

- Computer interfacing
- ID Badge verification on the PC
- Parking Access Gates
- Manufacturing Equipment Access
- Kiosks
- Data Collection Devices
- PLC's

## DB-1 Data Bridge

**Operating temperature range:**

-22° to 167°F (-30° to 75° C)

**Operating humidity range:**

5% to 95% relative humidity, noncondensing

**Dimensions**

3.1" L x 2.25" W x 0.84" H  
(79mm L x 57.2mm W x 21.3mm H)

**Ports**

Power: 5-13VDC Input, 80mA typical

Port 1: Wiegand D0, D1 (5V TTL, unbuffered)  
RS232 RX, TX  
GPIO 1 and 2 (5V TTL, unbuffered)  
Vout: Power to reader from Power In port  
Ground

Port 2: Wiegand D0, D1 (5V TTL, unbuffered)  
RS232 RX, TX  
GPIO 3 and 4 (5V TTL, unbuffered)  
Vout: Power to reader from Power In port  
Ground

**Microprocessor**

STMicro Cortex STM32F401 with 32bit core

RAM: 96Kb

ROM: 512Kb

**Orderable Part Numbers:**

DB1-052017

Includes pluggable terminal blocks for signal ports and power.

Contact Linkstream for More Information

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