# Ξscannexιιι

## microbuffer



- **Line powered.** The MicroBuffer is line powered and requires no external power supplies. It can even get enough power from the line it is logging.

- **Non-volatile storage.** High capacity, 1Mbyte, data storage with 10-year data retention without batteries.

- **Sophisticated Autobauding.** Simplifies installation and will maintain synchronisation with the data source even if the output speed or format changes.

- **Auto-pin detection.** The data will be logged from either pin 2 or pin 3. Standard straight-through RS232 cables can generally be used.

- **Setup & Diagnostics.** Simple terminal commands to setup and return diagnostic information.

> The MicroBuffer is a compact, ultra-low power, RS232 buffer that automatically detects the pin out and communications format of the data source. The MicroBuffer is line-powered and provides 1Mbyte of non-volatile flash storage. It is designed to present a normalised interface to the host computer — greatly simplifying installation and maintenance.

## data collection

**Automatic Configuration**

- Works with any standard RS232 compliant device

- Detects pin 2 or 3 for received data

- Obtains correct baud rate to match sending device

- Works out correct protocol from the data stream

- Maintains correct baud and protocol even if data source changes

**Choice of Format**

- Binary mode returns full 8 bit data

- ASCII mode returns 7 bit data

**Circular Memory**

- When completely full, new data will overwrite old data. The newest 1Mbyte of data is kept.

## operating modes

**Hardware Flow Mode**

- Sends data while both CTS & DTR remain asserted

- Bi-directional communication with data source

**Xon/Xoff (Hardware/Software Flow Mode)**

- Sends data while both CTS & DTR remain asserted, and the XON character is sent to the MicroBuffer.

**Timed Xon/Xoff**

- Sends data while both CTS & DTR remain asserted, and an Xon is sent to the MicroBuffer at least every 15s.

**Ymodem**

- Standard Ymodem error correction protocol for use with an external modem. The MicroBuffer also sends a setup string to the modem every 5 minutes (Reset + Auto Answer after 2 rings).

## applications

**Provide Resilience**

- Buffering the data allows the connected computer to be rebooted or upgraded and minimise data loss

**"Post and Forget" Distribution**

- Using the MicroBuffer with your application will allow simple installation for your customer. They can connect the MicroBuffer with standard cables and not worry about DCE/DTE, baud rates, or protocols.

**Remote Logging**

- Low cost remote data logging with an external modem.

- Central site dials the MicroBuffer

## specifications

| | |
|---|---|
| **Data Source Port** | RS232/V24, 9-pin plug - data input on pins 2 or 3 |
| | Output pin resolves according to input detection |
| | Baud: 300 - 19200 baud |
| | Data: 7-bit Odd/Even/None, 8 bit Odd/Even/None |
| | Full autobauding and parity detection within this range. |
| | Capture pure binary or 7-bit ASCII |
| **Computer Port** | RS232/V24, 9-pin socket |
| | 9600, 19200, 57600 baud, 8-bit, no parity |
| **Memory** | 1Mbyte Flash - 10 year data hold-up |
| **Power Supply** | None required! |
| **LED** | Blinks rapidly as data arrives, flashes if data stored in memory |

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|---|---|---|
| **Physical** | Temperature: | 5-55°C (40-130°F) |
| | Humidity: | 20-80% R.H. (non condensing) |
| | Dimension: | 85 x 55 x 19mm |
| | | 3.3" x 2.2" x 0.75" (LxWxH) |
| | Weight: | 55g |
| | | 1.9oz |
| **Certifications** | CE Class B (EN55022, EN55024) | |
| | FCC Rules CFR 47 Part 15 Limit A | |
| | AS/NZS 3548 Class A | |