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micro buffer

- **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.

- **Support utility.** Simple command line utility for MicroBuffer configuration and interrogation.

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

- 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 datasource changes

Choice of Format

- Binary mode captures full 8 bit data

- ASCII only mode stores 7 bit data

Circular/Linear Memory

- If PC is not connected or ready, new data will overwrite old data when the memory is full - keeping the newest 1Mbyte of data

- When PC is ready, the memory remains in standard 'linear' mode

data delivery

Hardware Flow Mode

- Sends stored data when both CTS and DTR remain asserted

Hardware/Software Flow Mode

- Send data when both CTS and DTR remain asserted, and the XON character is sent to the MicroBuffer. Data flow can be paused by sending the XOFF character, or unasserting the handshake lines.

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.

specifications

Serial 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
PC Port	RS232/V24, 9-pin socket
	300-19200, 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

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	