ONEIL®

The Most Reliable Portable Printers®

A **DOVER** COMPANY

microFlash® 2t*e* Serial & Wireless Portable Thermal Printer

2t*e*

The next generation of the microFlash 2t series offers the most reliable performance available, printing outstanding quality 2" direct thermal receipts, proof of delivery documents, labels and invoices in the rugged mobile environment. The new 2t*e* enhanced version comes with an integrated Bluetooth® option, lightning fast processing and external LED status indicators. Whether in serial or wireless mode, the small and lightweight 2t*e* is the winning choice for field service, route accounting, direct store delivery (DSD), logistics, home delivery and pre-sales systems. Its reliable print mechanism offers outstanding print clarity for graphics, bar codes and logos. The 2t*e* provides the most reliable 2" printing, shift after shift, month after month, year after year.

Rugged and Reliable. With uncompromising standards, the 2t*e* is engineered to withstand even the most punishing portable applications. It is the only portable 2" printer that provides the durability required in the demanding field environments. Taking multiple 6' drops to concrete, the unbreakable double-walled polyethylene case protects your investment; taking all the bumps and knocks inherent in the mobile workplace.

Wireless Printing. When you need wireless, count on O'Neil to offer the most reliable solution. Optional Bluetooth® and extreme portability, eliminates the need for mobile workers to return to their vehicle to print receipts or tickets. All configurations feature advanced 32-bit architecture RISC processor for light-speed processing. O'Neil is the first portable printer manufacturer to incorporate the Bluetooth protocol in Flash memory, eliminating the need for costly hardware upgrades when wireless specifications change.

Power to Spare. The 2t*e* uses one 7.2V Li-ion, 1800 mAh battery. Its automatic sleep mode saves power and the fast 3-4 hour recharging time, along with an optional vehicle charger, provides the ideal solution for long and intense printing applications.

Flash Memory. As your business changes, so might your printer needs. We pioneered the use of Flash memory many years ago allowing you to change fonts and functions simply by connecting the printer to a computer. No need to return the printer for an upgrade.

We Speak Your Language – Any Language. O'Neil has eliminated the font and character limitations found in other printers. In cooperation with Bitstream® fonts, any international character set can be added to the 2t*e* with a one-time minimal setup fee.

Two Year Warranty. The 2t*e*'s rock-solid print mechanism is proven to provide years of service where other printers fail. The full two year warranty, even on the printhead, offers peace of mind with our promise to stand behind every product we sell.

"Companies, some of which have discovered the hard way that standard printers are not durable in the field, are increasingly seeking ruggedized options. We've been replacing a lot of mobile printers that weren't cut out for the demands of the mobile workforce."

Business Solutions Magazine

▶ New! microFlash 2t*e*

The 2t*e* comes with the same reliability you've come to expect from the microFlash 2t but with enhanced capabilities in a much smaller footprint.

Enhanced features include:

- **New Compact Design -** up to 33% smaller than competitive rugged printers
- Serial or Bluetooth connectivity
- Advanced 32-bit architecture RISC processor for light-speed processing
- External LED indicators for Bluetooth, charging and power status
- External charging port

▶ Magnetic Card Reader

The optional swipe-style card reader provides field service and route professionals the advantage of collecting payments and generating receipts while at the customer site. The swipe-style card reader provides outstanding reliability and is easy to use.

www.oneilprinters.com

Features and Options at a Glance

- Compact design - up to 33% smaller than competitive rugged printers.
- Comes with the industry's only two-year standard warranty - twice that of the competition!
- Features an advanced 32-bit architecture RISC processor for light-speed processing.
- External LED indicators for Bluetooth®, charging and power status.
- Supports a wide variety of hand-held computers from leading manufacturers.
- Exceptional print quality (203 dpi resolution).
- Fonts, graphics and operating system in Flash memory.
- Supports the printing of graphics, 1D bar codes, 2D symbologies, and signature capture.
- Intelligent power management and sleep mode for extended battery life.
- Charging options include a low cost AC adapter or 12V vehicle cigarette lighter adapter.
- Swivel belt clip included.
- Optional Bluetooth connectivity, swipe-style magnetic card reader, and linerless printing capability.

2t*e*

Specification Highlights

Physical Characteristics	microFlash® 2t*e*	microFlash® 2t*e*, Bluetooth®	microFlash® 2t*e*, Card Reader
Dimensions	5.5" x 4.3" x 2.5" (139.70 x 109.22 x 63.5 mm)	5.5" x 4.3" x 2.5" (139.70 x 109.22 x 63.5 mm)	6.4" x 4.3" x 2.5" (162.56 x 109.22 x 63.5 mm)
Weight (with battery only) Weight (with battery & paper roll)	15.3 oz (0.435 kg) 19.2 oz (0.544 kg)	15.3 oz (0.435 kg) 19.2 oz (0.544 kg)	16.9 oz (0.48 kg) 20.7 oz (0.587 kg)
Drop Specification	6 ft (1.8 m)	6 ft (1.8 m)	6 ft (1.8 m)

User Environment	
Operating Temperature	-4° F to 122° F (-20° C to 50° C)
Storage Temperature	-40° F to 158° F (-40° C to 70° C)
Charging Temperature	41° F to 104° F (5° C to 40° C)
Relative Humidity	10% to 90% non-condensing
ESD Protection	8 kV Air, 4 kV contact

Communications	
Serial	RS-232; 460.8 kbps
USB	2.0 (full speed)
Bluetooth® Network Environment Supported Versions	Ad hoc network environments v2.0 (compatible with v1.1 devices and above)

Print Technology	
Printhead	Direct thermal, 203 dots per inch (8 dots per mm), 1.89" (48 mm) print width
Printhead Warranty	2 years*
Print Mechanism Speed	2" per second (51 mm per second)

Media	
Type	Direct thermal receipt paper (standard, premium, heavy duty, long-life, image protect, hi-temp, and all weather), synthetic media, UV coated media, limited label support. Linerless labels (optional). For optimum print quality and printer performance, use Certified O'Neil supplies.
Capacity	2.25" (57 mm) maximum roll diameter (O.D.) 0.4" (10 mm) I.D. core
Width	2.25" (57 mm)

Optional Accessories	
• AC Adapter	• Paper/Labels
• Cigarette Lighter Adapter	• Spare Batteries
• Cleaning Cards & Kits	• Swivel Belt Loop
• Data Cables for Hand-Held Devices	• Swivel-Mount Bracket
• DB9 F Cable (coiled)	• Swivel-Mount Shoulder Strap
• Magnetic Stripe Card Reader	

Warranty	
2 years (including printer case and printhead*)	

Power Source		
Battery		Lithium Ion, 7.2V, 1800 mAh
DC Input		External DC jack, 12-15V, built-in spike and surge protection
Endurance	**Serial**	Prints approx. 5,000" or 833 – 6" receipts on a single battery charge
	Bluetooth	Prints approx. 4,680" or 780 – 6" receipts on a single battery charge
Recharging		3-4 hours from AC adapter or cigarette adapter

Fonts & Languages		
Memory Capacity		Flash: 4MB RAM: 2MB
Standard Fonts		5.5CPI, 7.2CPI, 10.2 CPI, 10.7CPI, 18.5CPI 20.4CPI, 22.6CPI & 34.0CPI (additional fonts available)
Optional Characters		Arabic, Greek, Hebrew, OCRA, OCRB, Unicode subset including Latin & Thai Asian (including Big 5, Simplified Chinese, and Shift JIS) (additional international characters available)
Bar Codes	**Linear**	Codabar, Code 39, Code 93, Code 128, EAN-8, EAN13, Interleaved 2 of 5, MSI/Plessey, UCC/EAN-128, UPC-A, UPC-E
	2D symbologies	PDF417; AZTEC and QR (available on wireless only)
Graphics		Supports storage of graphics/logos in Flash memory and transient "print once" graphics

Software	
Protocol	Line Printer Mode, Easy Print®
Device Management	O'Neil Printer Management Console (OPMC), Wavelink Avalanche
Drivers	Windows CE and Desktop
Label Designers	NiceLabel, BarTender®, DP Designer
Software Development Kit	C++, Visual Basic, Microsoft Dynamics, Blackberry

Agency Approvals	
Serial / Bluetooth	FCC B, CE, UL/cUL, NOM, CB Scheme, BQB

* When used with approved media grades.
** Contact Technical Support for more information.

Specifications are subject to change without notice.

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Bluetooth®