



The Most Reliable Portable Printers®

A DOVER COMPANY

## microFlash® 2t Serial & Wireless Portable Thermal Printer

The microFlash 2t offers the most reliable performance available, printing outstanding quality 2" direct thermal receipts, proofs of delivery, labels and invoices. Whether in serial or wireless mode, the small and lightweight 2t is the printer of choice around the globe for route accounting, direct store delivery (DSD), field service, logistics, home delivery and pre-sales systems. Its reliable print mechanism offers outstanding print clarity, allowing the printing of graphics, bar codes and logos. The 2t is recognized worldwide for providing the most reliable 2" printing, shift after shift, month after month, year after year.

**Rugged and Reliable.** With uncompromising standards, the 2t is engineered throughout to withstand even the most punishing portable applications. It is the only portable 2" printer that provides the durability required in the demanding field mobile environment. Designed to take 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. Both our 802.11b/g and Bluetooth® network modules eliminate the need for mobile workers to return to their vehicle to print receipts or tickets. All wireless 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 software and hardware upgrades whenever the wireless specification changes.

**Power to Spare.** The 2t uses one 6V NiMH, 2150 mAh battery. Its automatic sleep mode saves power and the fast 3-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 with a one-time minimal setup fee.

**Two Year Warranty.** The 2t'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



### ▶ Wireless Connectivity

An integrated 802.11b/g module connects the microFlash 2t to a wireless network in peer-to-peer mode or in infrastructure mode and complies with the IEEE interoperability standards for direct sequence wireless LANs. When the printer is configured with the integrated Bluetooth module, users can realize all of the convenience, power efficiencies and cost benefits of a wireless personal area network..

### ▶ Magnetic Stripe Card Reader

The optional insertion magnetic stripe card reader provides route professionals the advantage of collecting payments and generating receipts while at the customer site. The insertion-style card reader provides outstanding reliability and is known for its ease-of-use.



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# Standard Features at a Glance

- Optional wireless 802.11b/g or Bluetooth® networking technologies.
- Wireless models feature an advanced 32-bit architecture RISC processor for light-speed processing.
- 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 international character sets and any Bitstream® bitmap font\*\*.
- Increased label capacity using linerless label stock (optional).
- Supports the printing of graphics, 1D bar codes, 2D symbologies, and signature capture.
- Intelligent power management and programmable sleep mode for extended battery life.
- Charging options include a low cost AC adapter or 12V vehicle cigarette lighter adapter.
- Optional insertion-style magnetic stripe card reader.



2t

## Specification Highlights

Physical Characteristics	microFlash® 2t	microFlash® 2t, Bluetooth®	microFlash® 2t, 802.11b/g
Dimensions	7.375" x 4.675" x 2.42" (187.33 x 118.75 x 61.47 mm)	7.3" x 4.7" x 2.5" (185.42 x 119.38 x 63.5 mm)	7.4" x 4.94" x 2.45" (187.96 x 125.48 x 62.23 mm)
Weight (printer only)	13.3 oz (0.337 kg)	21.6 oz (0.612 kg)	22.4 oz (0.635 kg)
Weight (with battery & paper roll)	23.3 oz (0.660 kg)	25.6 oz (0.726 kg)	26.2 oz (0.743 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 (wireless) / 38.4k kbps (serial)
IrDA	115.2 kbps

### 802.11b/g

Frequency Band	2.4 to 2.4897 GHz
Data Rates	Standard 802.11b/g rates
Network Standard	IEEE 802.11b/g
Wireless Access Modes	Infrastructure and ad hoc
Wireless Medium	Direct Sequence Spread Spectrum (DSSS)
Authentication	Open or Shared key
Security Protocols	40 bit WEP, 128 bit WEP, WPA, LEAP, EAP-FAST, plus others available
Network Support	DHCP
Remote Management Support	Compatible with the O'Neil Printer Management Console and other remote management systems

### Bluetooth®

Network Environment	Ad hoc network environments
Supported Versions	v1.2 (compatible with v1.1 devices)

### 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, labels, 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)

### Options / Accessories

- AC Adapter
- Cigarette Lighter Adapter
- Cleaning Cards & Kits
- Data Cables for Hand-Held Devices
- DB9 F Cable (coiled)
- DC Power Extension
- Depot Charger Kit
- External Battery Charger
- Magnetic Stripe Card Reader
- Paper/Labels
- Spare Batteries
- Swivel Belt Loop
- Swivel-Mount Bracket
- Swivel-Mount Shoulder Strap

### Power Source

Battery	(1) 6V NiMH, 2150 mAh
DC Input	Internal DC jack, 12-15V, built-in spike and surge protection
Endurance	<b>Serial/IrDA</b> Prints approx. 9,690" or 1,615 – 6" receipts on a single battery charge <b>Bluetooth</b> Prints approx. 4,650" or 775 – 6" receipts on a single battery charge
Recharging	2.5-3.5 hours from AC adapter or cigarette adapter

### Fonts & Languages

Memory Capacity	Flash/RAM Memory <b>Serial:</b> 512kB/128kB Flash/RAM Memory <b>Wireless:</b> 4 MBytes/2 MBytes
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 (additional international characters available)
(wireless models only)	Asian (including Big 5, Simplified Chinese, and Shift JIS)
Bar Codes	<b>Linear</b> Codabar, Code 39, Code 93, Code 128, EAN-8, EAN-13, Interleaved 2 of 5, MSI/Plessey, UCC/EAN-128, UPC-A, UPC-E <b>2D symbologies</b> 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)
Drivers	Windows CE and Desktop
Label Designers	NiceLabel, BarTender®, DP Designer
Software Development Kit	BlackBerry

### Agency Approvals

<b>Serial/IrDA</b>	FCC B, CE, UL/cUL
<b>Bluetooth, 802.11b/g</b>	FCC B, CE, UL/cUL

### Warranty

2 years (including printer case and printhead\*)

\* When used with approved media grades.

\*\* Contact Technical Support for more information.

Specifications are subject to change without notice.

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