

A DOVER) COMPANY

microFlash[®] 4t Serial & Wireless Portable Thermal Printer

The flagship of the microFlash Family is the 4t serial and wireless portable thermal printer. This workhorse offers the most reliable performance available, printing outstanding quality 4" receipts, proofs of delivery, labels and invoices. Small and lightweight, the 4t is simply the finest choice worldwide for route accounting, direct store delivery, field service, logistics, home delivery and pre-sales systems. The 4t prints direct thermal receipts and invoices, as well as linered and linerless labels. It can also print a condensed 80-column font receipt, providing a lightweight portable alternative to larger or vehicle-bound 80column printers. Its reliable print mechanism offers outstanding print clarity, allowing the printing of graphics, bar codes and logos.

Rugged and Reliable. With uncompromising standards, the 4t is engineered throughout to withstand even the most punishing portable applications, and is the only portable 4" 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. The 4t's rock solid print mechanism is proven to provide years of service where other printers fail. The full one year warranty, even on the printhead, offers peace of mind with our promise to stand behind every product we sell.

Wireless Printing. When wireless is a necessity, count on O'Neil to offer the most reliable solution.

Our 802.11b wireless local area network (WLAN) solutions incorporate a user-installable Cisco® or factory installed Symbol PCMCIA card connecting the 4t to your wireless network. Our Bluetooth® module offers the convenience of a wireless personal area network (WPAN), eliminating the need for mobile workers to return to their vehicle to print receipts or tickets. O'Neil was 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 4t's Lithium-Ion batteries offer maximum power capacity for a full 8-hour shift or longer, even under the toughest conditions. It can print as many as 13,440", that's almost 2,240 – 6" receipts, on a single battery charge. Its automatic "sleep" mode saves power and the fast 4-hour recharging time, along with optional vehicle charger, provides an ideal solution for long and intense printing applications.

Flash Memory. As 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 4t with a one-time minimal setup fee. By upgrading the
hand-held computers
and printers we use for
billing, we've taken
another step in our effort
to lighten the load on
our delivery team to
make it more efficient
and better able to serve
our 20,000 customers."

Vice President of Logistics La Brasserie Labatt Frontline Solutions Magazine May 2003

Wireless Bluetooth® or 802.11b

Our WLAN solution incorporates a user installable Cisco PC card or factory installed Symbol Spectrum 24 PC card (PCMCIA), which connects the microFlash 4t printer to a wireless network in ad hoc peer-to-peer mode or in infrastructure mode and complies with the IEEE 802.11b 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 the WPAN. 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.

www.oneilprinters.com

Standard Features at a Glance

- Optional wireless local area network (WLAN)
- or wireless personal area network (WPAN) networking technologies.
- Supports a wide variety of hand-held computers from leading manufacturers.
- Exceptional print quality (203 dpi resolution).
- · Stores fonts, graphics and operating system in Flash memory.
- Supports international character sets and any Bitstream® bitmap font.
- 80-column font for invoice printing.
- Increased label capacity using linerless label stock (optional).
- Supports the printing of graphics, 1D and 2D bar codes 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 Magnetic Stripe and Smart Card Reader.

Specification Highlights microFlash® 4t Serial & Wireless Portable Thermal Printer



Physical Characteristics	microFlash [®] 4t	microFlash [®] 4t Bluetooth [®]	microFlash [®] 4t 802.11b	
Dimensions:	6.825" x 6.57" x 2.60"	6.825" x 6.57" x 2.675"	6.825" x 7.375" x 2.675"	
	(17.3 x 16.7 x 6.6 cm)	(17.3 x 16.7 x 6.8 cm)	(18.7 x 17.3 x 6.8 cm)	
Weight (printer only) Weight (with batteries & paper i	17.05 oz (0.483 kg) roll) 32.95 oz (0.934 kg)	19.6 oz (0.556 kg) 35.3 oz (1.001 kg)	21.6 oz (0.612 kg) 37.3 oz (1.057 kg)	
Drop Specification	6 ft (1.8 m)	6 ft (1.8 m)	6 ft (1.8 m)	
User Environment		Battery Characteristics		
Operating Temperature	-4° F to 131° F (-20° C to 55° C)	Туре	7.2V Lithium-Ion (Li-Ion), 2200 mAh	
StorageTemperature	-40° F to 158° F (-40° C to 70° C)		(two batteries for a total of 4400 mAh)	
Charging Temperature	41° F to 104° F (5° C to 40° C)	Endurance		
	10% to 90% non-condensing	Serial/IrDA	Prints approx. 13,440" or 2,240 – 6" receipts on a single battery charge Prints approx. 9,102" or 1,517 – 6" receipts on a	
,	8 kV Air, 4 kV Contact	Bluetooth		
Communications		2.000000	single battery charge	
	RS-232, up to 38.4k baud (available on all models)	802.11b	Prints approx. 5,256" or 876 – 6" receipts on a single battery charge Prints approx. 5,622" or 937 – 6" receipts on a	
		Spectrum24 Pr		
	IrDA compliant infrared data communications, up to 115.2k baud		single battery charge	
models)		Battery Life	56% of original capacity after 500 cycles	
Wireless LAN	Cisco® Aironet® 350 Series PC Card (PCMCIA)	Recharging	4-5 hours from AC adapter or cigarette adapter	
	Symbol® Spectrum24® LA 4121 (PCMCIA)	Fonts & Languages		
	2.4 to 2.4897 GHz 1, 2, 5.5 and 11 Mbps	Memory Capacity	Flash/RAM Memory 4t, Serial/IrDA: 4/1 Mbit	
	IEEE 802.11b	,,	Flash/RAM Memory 4t Bluetooth, 802.11b: 8/4 Mb	
	Infrastructure and ad hoc	Standard Fonts	5.5CPI, 7.2CPI, 10.2 CPI, 10.7CPI, 15.6CPI,18.5CPI	
	Direct Sequence Spread Spectrum (DSSS) Open or Shared key		20.4CPI, 22.6CPI & 34.0CPI (additional fonts availab	
	None, 40 bit, 128 bit WEP	International Characters	Arab-T, Arab-S, Arab-E, Asian-A, Asian-B, shiftJIS, Gre	
DHCP	Supported		OCRA, OCRB, Unicode subset including Latin & The	
DNS	Supported	Des Octor	(additional international characters available)	
	Integrated Bluetooth module	Bar Codes	Prints1D and 2D bar codes	
	Ad hoc or piconet network environments Supports version 1.1 and 1.2 of the Bluetooth	Graphics	Supports storage of graphics/logos in Flash memory transient "print once" graphics	
	standard (SIG certified)	Agency Approvals		
Print Technology		4t Serial/IrDA	FCC B, CE, C-Tick	
Printhead	Direct thermal, 832 dots across, 203 dpi (8 dots / mm)	4t Bluetooth, 802.11b	FCC B, CE, C-Tick, E-Mark	
Printhead Life	400,000,000 dot lines @ 25%	Warranty		
Print Speed	Up to 2" per second	2 years (including printer ca	2 years (including printer case and printhead*)	
Media		Options / Accessories	Options / Accessories	
	Direct thermal paper, labels, linerless labels (optional)	• 3" Paper Adapter	DC Power Extension	
Capacity	2.25" maximum roll diameter	AC Adapter	Depot Charger Kit	
	4.41" (11.2 cm)	Battery Bettery	Dual External Battery Charger Magnetic String/Smart Card Bander	
Power Source		 Battery Eliminator Cigarette Lighter Adapter 	 Magnetic Stripe/Smart Card Reader Paper/Labels 	
	7.2V Lithium-lon (Li-lon), 2200 mAh	Cleaning Cards	Swivel Belt Loop	
201017	(two batteries for a total of 4400 mAh)	Cleaning Kit	Swivel-Mount Bracket	
	(AC Adapter) 12-15V, built-in spike and surge protection	 Data Cables for Hand-Held DB9 Download Cable 	Data Cables for Hand-Held Devices Swivel-Mount Shoulder Strap	
	(Cigarette Lighter Adapter) 12-15V, built-in spike			

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Bluetooth*

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