

# microFlash® 2t<sup>e</sup> / 4t / 4t<sup>e</sup>

Ultra-rugged and Portable ■ ■ ■



microFlash® 4t<sup>e</sup>

microFlash® 2t<sup>e</sup>

## features at a glance ■ ■ ■

- **2t<sup>e</sup>/4t<sup>e</sup> exclusive features:** Advanced 32-bit architecture RISC processor for light-speed processing, LED lights to indicate Bluetooth, charging and power status, and an external DC jack for easy charging
- **Options:** Bluetooth or 802.11 b/g connectivity, magnetic stripe card reader, and linerless printing capability
- **Compatibility:** Supports a wide variety of hand-held computers from leading manufacturers
- **Print Quality:** 203 dpi resolution
- **Fonts:** 80-Column condensed font for invoice printing (4t/4t<sup>e</sup> only); stores fonts, graphics and operating system in Flash memory; supports international character sets and any Bitstream® bitmap font
- **Graphics:** Supports the printing of graphics, 1D bar codes, 2D symbologies, and signature capture
- **Endurance:** Intelligent power management and programmable sleep mode for extended battery life
- **Battery:** Unlike competitors' printers, the battery is included in the purchase price. And when it's time to replace the battery, the microFlash printers use economical replacement batteries
- **Charging options:** External charge contacts, AC adapter, or 12V vehicle cigarette lighter adapter
- **Warranty:** Comes with the industry's only two-year standard warranty - twice that of the competition!

The microFlash family offers the most rugged and reliable performance for route accounting, direct store delivery and field service workers. Frequent drops, extreme vibration, constant jarring, and excessive dust are just a few examples of the regular abuse mobile technology endures. No printer thrives in the demanding mobile workplace better, longer, or more reliably than the microFlash family of printers.

**2t<sup>e</sup>** The microFlash 2t<sup>e</sup> is the most rugged and reliable 2-inch wireless portable printer available in addition to being the smallest. In fact, the 2t<sup>e</sup> is up to 33% smaller than competitive rugged printers! USB connectivity allows the 2t<sup>e</sup> to integrate easily into new or existing applications and is also available with optional Bluetooth for wireless communication.

**4t / 4t<sup>e</sup>** With uncompromising standards, the 4t/4t<sup>e</sup> is engineered throughout to withstand even the most punishing portable applications including multiple 6ft drops to concrete. The 4t/4t<sup>e</sup> prints outstanding quality 4-inch receipts, proof of deliveries, labels, and invoices. The 4t comes with Serial and IrDA communication. The 4t<sup>e</sup> is every bit as rugged as the 4t but it offers enhanced processing speed (10 times faster), greater memory capacity, USB connectivity power status lights, external charging, and optional Bluetooth and 802.11 b/g wireless connectivity.

## popular applications ■ ■ ■



### Route Accounting/ Direct Store Delivery

- Delivery Receipts
- Inventory Reports
- Route/Labor Scheduling
- Credit Card Transactions



### Field Service

- Service Receipts
- Pickups/Deliveries
- Maintenance
- Settlement Reports



### Mobile POS

- Transaction Receipts
- Rain Checks
- Coupons
- Que Busting

## your benefits ■ ■ ■

**Increased productivity** – Using a reliable printer means your operation will run smoothly without downtime or hand written receipts. The microFlash family is the most rugged and reliable printer series available with a proven design to keep mobile workers productive and your customers satisfied.

**Lower total cost of ownership (TCO)** – Save money on expensive extended warranties and repairs. Everyone agrees that reliability is important to the success of an application but Datamax-O'Neil is the only company to stand behind its mobile thermal printers with a 2-year warranty.



### Did you know?

Using quality labels and paper can significantly prolong the life of your printhead. Datamax-O'Neil offers a wide variety of high quality media for its printers including custom and stock labels and receipts, ticketing media, and cleaning products. When you choose Datamax-O'Neil, you receive a proven commitment to superior quality. Quality that results in performance and compatibility... Guaranteed.



datamax·oneil  
right by our customers.



2te

The 2te is the smallest 2-inch portable printer available for the rugged mobile environment. Your mobile workers appreciate the convenience of wireless communication and the 2te's ability to process transaction receipts with the optional card reader.



4t

Looking for a rugged printer that will last? Look no further, the 4t set the standard for reliability and continues to thrive in the most punishing of environments around the world.



4te

The 4te comes with the same reliability you've come to expect from the 4t but with enhanced capabilities and wireless connectivity. The 4te printer is compatible with existing 4t applications, allowing resellers and users around the world to easily drop the 4te into legacy applications without any modifications.

## Communication Options

Serial, Bluetooth (v2.0)

Serial, IrDA

Bluetooth (v1.2), 802.11 b/g

## Model

2te	2te (with card reader)	4t (Serial)	4te	4te (with card reader)
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## Dimensions

5.5" h x 4.3" w x 2.5" d (139.70 x 109.22 x 63.5 mm)	6.4" h x 4.3" w x 2.5" d (162.56 x 109.22 x 63.5 mm)	6.82" h x 6.57" w x 2.6" d (173.2 x 166.9 x 66 mm)	6.8" h x 6.9" w x 2.7" d (172.2 x 175.8 x 69.1 mm)	7.6" h x 6.9" w x 2.7" d (193.5 x 175.8 x 68.3 mm)
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## Weight (with battery)

15.3 oz (0.435 kg)	16.9 oz (0.48 kg)	23.75 oz (0.67 kg)	28 oz (0.792 kg)	29.1 oz (0.824 kg)
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## Weight (with battery and paper roll)

19.2 oz (0.544 kg)	20.7 oz (0.587 kg)	32.95 oz (0.93 kg)	37.2 oz (1.05 kg)	38.3 oz (1.09 kg)
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## Print Width

1.89" (48 mm)	4.10" (104 mm)
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## Media Width

2.25" (57 mm)	4.41" (112 mm)
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## Maximum Media Capacity

2" (50.8 mm) maximum roll diameter	2.25" (57 mm) maximum roll diameter (O.D.)
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## Battery

(1) Lithium Ion, 7.2V, 1800 mAh	(2) Lithium-Ion, 7.2V, 2200 mAh (for a total of 4400 mAh)
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## DC Inputs (12-15V, built-in spike and surge protection)

External DC jack	Internal DC jack	External DC jack; optional external charge contacts
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## Endurance (on a single battery charge)

Prints up to approx. 5,000" or 833 – 6" receipts	Prints approx. 13,440" or 2,240 – 6" receipts	Prints up to approx. 6,900" or 1,150 – 6" receipts
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## Recharging

3-4 hours from AC adapter or cigarette adapter	4-5 hours from AC adapter or cigarette adapter
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## Memory

4MB Flash / 2MB RAM	512KB Flash / 128KB RAM	4MB Flash / 2MB RAM
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# product specifications ■ ■ ■

## physical characteristic ■ ■ ■

- Drop specification:
  - 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:
  - (4t/4te) 15 kV Air, 8 kV contact
  - (2te) 8 kV Air, 4 kV contact

## print technology ■ ■ ■

- Printhead:
  - Direct thermal
  - 203 dots per inch (8 dots per mm)
- Print mechanism speed:
  - 2" per second (51 mm per second)

### ***DTransfer***

#### Thermal Transfer on the Go

Learn more at: [www.datamax-oneil.com/supplies](http://www.datamax-oneil.com/supplies)

With *DTransfer*™ media exclusively from Datamax-O'Neil, you can print durable, weather-resistant thermal transfer labels directly from your 4t/4te portable printer. *DTransfer* incorporates a long-life, abrasion and scratch-resistant polypropylene thermal transfer label stock with a thermal transfer ribbon onto a single roll. Now, printing thermal transfer labels on-the-go is as easy as loading a roll of *DTransfer* media into your 4t/4te portable printer.

## media ■ ■ ■

- 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 Datamax-O'Neil supplies

## communication ■ ■ ■

- Serial:
  - RS-232; up to 460.8 kbps
- IrDA (4t only):
  - 115.2 kbps
- USB (2te and 4te only):
  - 2.0 (full speed)
- 802.11 b/g (4te only):
  - 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
  - Security protocols:

	WPA	WPA2
Modes	PSK/Enterprise	
Security/Encryption	TKIP/RC4	CCMP/AES
Authentication	EAP-FAST, EAP-PEAP, EAP-TTLS	

- Network support: DHCP, TCP, UDP, BOOTP
- Remote management support: Compatible with the Remote Management Software and other remote management systems
- Bluetooth:
  - Network environment: Ad hoc network environments

## barcodes/fonts/graphics ■ ■ ■

- 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, Korean and Shift JIS) - additional international characters available (*not available on the 4t*)
- Barcodes:
  - 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, QR, GS1, Datamatrix (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:
  - Remote Management Software (RMS), Wavelink Avalanche MC, Motorola MSP
- Drivers:
  - Windows CE and Desktop
- Label designers:
  - NiceLabel, BarTender®, DP Designer
- Software development kit:
  - C++, Visual Basic, Microsoft Dynamics, Blackberry

## agency approval ■ ■ ■

Contact sales manager for the most current approval list

## warranty ■ ■ ■

2 years (including printer case and printhead) when used with approved media grades

## options ■ ■ ■

- Wireless communication (2te/4te)
- Magnetic stripe card reader
- Linerless label capability
- External charge contacts (4te)
- Stationary belt clip (4t)



### Looking for a desktop label printer?

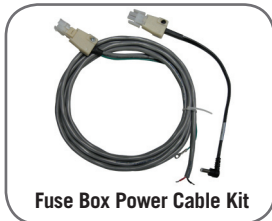
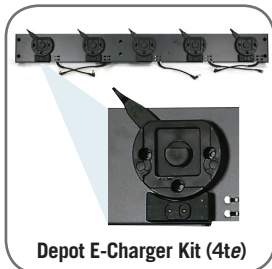
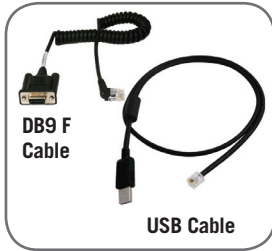
Datamax-O'Neil manufactures an extensive selection of desktop label printers that are ideal for manufacturing, warehouse, healthcare, ticketing, postal services and RFID labeling requirements. Competitive custom and standard media products are also available for all your label, receipt and ticketing needs.



## Included with each printer:

**2te** : (1) battery, (1) roll of thermal paper or linerless labels, (1) cleaning card, and (1) swivel mount belt clip

**4t / 4te** : (2) Batteries, (1) roll of thermal paper or linerless labels, (1) cleaning card



## required ■ ■ ■

<b>AC Adapter</b>	AC Adapter available with US, UK, Australia, or Euro plugs
<b>recommended ■ ■ ■</b>	
<b>Cigarette Lighter Adapter</b>	Allows you to charge the printer from the vehicle cigarette lighter
<b>DB9 F Serial/Configuration Cable</b>	DB9 F coiled right angle cable for connecting to a laptop or desktop computer
<b>USB Cable</b>	DB9 right angle USB download cable (for use with 2te and 4te printers only)
<b>Swivel Mount Belt Loop*</b>	Velcro loop fastens comfortably and securely around the belt; keeps the printer secure yet swivels for comfort while bending over or getting in and out of trucks
<b>Swivel Mount Belt Clip*</b>	Clip slips into the waistband and holds the printer in place; keeps the printer secure yet swivels for comfort while bending over or getting in and out of trucks (comes standard on all 2te models)
<b>Swivel Mount Bracket*</b>	Can be wall mounted or mounted in the vehicle to securely hold the printer in place; available in standard, e-charge and card reader configurations; additional charging cables must be used to charge printer - compatible with AC, cigarette lighter cables and fuse box cables (not included)
<b>Cleaning Cards &amp; Kits</b>	Use of cleaning cards is recommended to extend the life of the printhead (visit <a href="http://www.datamax-oneil.com/supplies">www.datamax-oneil.com/supplies</a> for more information)

## optional ■ ■ ■

<b>Serial Cables for Mobile Computers</b>	DB9 F coiled right angle download cables are compatible with a variety of popular mobile computers; see price list for a specific model compatibility and part number
<b>Depot E-Charger Kit (4te)</b>	Allows you to charge (5) 4te printers equipped with optional external e-charge contacts; US, UK, Australia, Swiss, and Euro versions available
<b>Depot Charger Kit (4t)</b>	Allows you to charge (5) 4t printers at once; US, UK, Australia, Swiss, and Euro versions available
<b>Fuse Box Power Cable Kit, 10'</b>	Charge your printer from a vehicle's fuse box Extension cables available in 3', 6', and 10' lengths for existing installations
<b>Spare Battery</b>	Lithium-Ion, 7.2V, 2200mAh (for 4t/4te models which require 2 batteries per printer) Lithium-Ion, 7.2V, 1800mAh (for 2te models which require 1 battery per printer)
<b>Double Bay Battery Charger</b>	2-bay battery charger keeps additional batteries charged and ready for use (for use with 4t and 4te batteries only)
<b>IP54 Soft Cases</b>	Protects your printer from environmental elements such as dust and moisture; meets IP54 compliance standards (models available for use with 2te and 4te printers)
<b>Swivel Mount Shoulder Strap*</b>	Adjustable strap allows the user to comfortably carry the printer on the shoulder; keeps the printer secure yet swivels for ease of motion
<b>Swivel Vehicle Mount Velcro Pad*</b>	Keeps the printer secure yet easily accessible on the road
<b>3" Spindle Bracket</b>	Turns the 4t/4te into a 3-inch printer

\*Swivel mount accessories are not compatible with the 4t standard belt clip models

**to learn more, visit [www.datamax-oneil.com](http://www.datamax-oneil.com)**

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