



# microFlash4t

Thermal Wireless Printer

## Wireless!

Introducing WLAN & WPAN printing solutions.



### Wireless microFlash 4t

Extend the reach of enterprise networks by enabling frontline workers to print 4" wide receipts and labels at virtually any point of operation.

microFlash  
Thermal Wireless Printer

# 4t



PRODUCT DEVELOPMENT

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## Simple. Rugged. Reliable. And Now Wireless.

Our wireless local area networking solution incorporates a user installable Cisco® 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, mobile workers can realize all of the convenience, power efficiencies, and cost benefits of a wireless personal area network. As the first portable printer manufacturer to incorporate the Bluetooth protocol in flash memory, O'Neil Product Development has eliminated the need to return the microFlash 4t printer to the factory for costly software and hardware upgrades whenever the Bluetooth wireless specification changes.

### Standard Features at a Glance

- WLAN or WPAN networking technologies
- Supports a wide variety of handheld computers from leading manufacturers
- Exceptional print quality (203 dpi resolution)
- Fonts, graphics and operating system stored in flash memory
- Supports international character sets and any Bitstream® bitmap font
- 80 column font for invoice printing
- Increased label capacity through the use of 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
- Optional Magnetic Stripe and Smart Card Reader

### Specification Highlights microFlash 4t Thermal Wireless Printer

Physical Characteristics:	microFlash 4t Bluetooth	microFlash 4t 802.11b
Dimensions:	6.57 in. x 6.825 in. x 2.675 in. (16.7 cm x 17.3 cm x 6.8 cm)	7.375 in. x 6.825 in. x 2.675 in. (18.7 cm x 17.3 cm x 6.8 cm)
Weight (with batteries and paper roll):	35.3 oz. / 1,000.7 g	37.3 oz. / 1,057.4 g
Drop Specification:	6ft. / 1.8m	6ft. / 1.8m

<b>Environment:</b> <b>Operating Temp</b> -20° C to 50° C / -4° F to 122° F <b>Storage Temp</b> -40° C to 70° C / -40° F to 158° F <b>Charging Temp</b> 5° C to 40° C / 41° F to 104° F <b>Relative Humidity</b> 10% to 90% noncondensing <b>ESD Protection</b> 8 kV Air, 4 kV Contact		<b>Communications:</b> <b>RS-232 Serial</b> Up to 115.2k baud <b>Wireless LAN</b> Cisco Aironet® 350 Series PC Card (PCMCIA) Frequency Band 2.4 to 2.4897 GHz Data Rates Supported 1, 2, 5.5, and 11 Mbps Network Standard IEEE 802.11b Network Architecture Types Infrastructure and ad hoc Wireless Medium Direct Sequence Spread Spectrum (DSSS) <b>Personal Area Network</b> Integrated Bluetooth module Network Environment Ad hoc or piconet network environments Protocol Supports version 1.1 of the Bluetooth standard (SIG certified)	
<b>Print Technology:</b> <b>Direct Thermal</b> 4.09" (104mm) print width 203.2 DPI, 8 dots/mm <b>Print Head Life</b> 400,000,000 dot lines @25% <b>Print Speed</b> Up to 2.5 inches per second		<b>Media:</b> <b>Roll Capacity</b> Thermal paper: 1,716" / 43.5m Linerless: 840" / 21.3m <b>Paper Width</b> 4.41" / 112.0mm <b>Media Types</b> Direct thermal paper, Labels Linerless labels (optional)	
<b>Fonts &amp; Languages:</b> <b>Memory Capacity</b> Flash/RAM memory: 8 / 4 Mbit 5.5CPI, 7.2CPI, 10.2CPI, 10.7CPI, 18.5CPI, 20.4CPI, 22.6CPI <b>Int'l Characters</b> Arab-T, Arab-S, Arab-E, Asian-A, Asian-B, shiftJIS, Greek, OCRA, OCRB, Unicode subset including Thai and Latin <b>Bar Codes</b> Prints 1D and 2D bar codes <b>Graphics</b> Supports storage of graphics and logos in flash memory. Also supports transient, print once graphics		<b>Agency Approvals:</b> FCC B, CE, C-Tick, E-Mark <b>Warranty:</b> 1 Year (including printer case and printhead)	
<b>Power Source:</b> <b>Battery</b> 7.2V Lithium Ion 1350 mAh (two batteries for a total of 2700 mAh) <b>DC Input</b> 12-15V, built-in spike and surge protection		<b>Optional Accessories:</b> Swivel Belt Loop Vehicle Mounting Bracket DC Power Extension AC Adapter Cigarette Lighter Adapter DB9F Data Cable Magnetic Stripe / Smart Card Reader	
<b>Battery Characteristics:</b> <b>Type</b> 7.2V Lithium Ion 1350 mAh (two batteries for a total of 2700 mAh) <b>Endurance (802.11b)</b> Prints 3,864 inches on a single battery charge (644 6" receipts) <b>Endurance (Bluetooth)</b> Prints 4,326 inches on a single battery charge (721 6" receipts) <b>Battery Life</b> 56% of original capacity after 500 cycles <b>Recharging</b> 2-3 hours from AC Adapter or Cigarette Lighter Adapter		Specifications are subject to change without notice. All product and company names are trademarks, service marks, or registered trademarks of their respective owners. Copyright 2004, O'Neil Product Development, Inc. Part Number: 110120-000 Rev. 2 Made in U.S.A.	