



The Most Reliable Portable Printers.®

## microFlash® 8i Serial & Wireless Portable Impact Printer

The microFlash 8i and 8i High Speed serial and wireless printers print high-quality, full size, multi-part customer invoices, receipts, load reports, transfers and other documents for route accounting applications at the point of delivery. O'Neil's unique design makes the 8i rugged enough to be used either in the front seat of a delivery vehicle or carried into a receiving area. Holding up to 200 sheets of 8.5" x 11" or A4 paper, the exclusive paper feed design of the 8i literally eliminates paper jams and allows the maximum amount of paper to fit in a small footprint.

**Rugged and Reliable.** The 8i is backed by legendary reliability. With uncompromising standards, the 8i is engineered throughout to withstand the punishing demands of the mobile environment. The unbreakable double-walled polyethylene case protects the 8i from everyday jolts and road bumps, and its rock solid print mechanism is proven to provide years of service where other printers fail. A full one year warranty is provided for the 8i, even on the printhead, offering peace of mind you can only get with an O'Neil printing solution.

**Wireless Printing.** When wireless is a necessity, count on O'Neil to offer the most reliable solution. The 8i High Speed is available in either 802.11b or Bluetooth® versions.

**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 taken away the font and character limitations found in other printers. In cooperation with Bitstream® fonts, any international character set can be added to the 8i with a one-time minimal setup fee.

**Plenty of Power.** The 8i is powered by your vehicle's 12-volt system without a voltage adapter, or it can be used remotely with an internal battery pack. The 8i has enough power to print 178 – 11" invoices on a single battery charge, while the 8i High Speed can print up to 201 – 11" invoices on a single battery charge.

**No Paper Jams.** In the early 80's, O'Neil created a unique paper feed design that literally eliminates paper jams. It allows a lot of paper to fit in a small package. The printer can be held in any orientation, even upside down, without jamming... perfect for portable applications.



*“Not only have the O'Neil printers lived up to our expectations, they have surpassed them in terms of reliability. In the nearly two years we have been using them, they have had a failure rate of less than 1%.”*

Matt McGary  
Chicago Tribune

### ▶ Wireless Bluetooth® or 802.11b

The 8i High Speed printer offers either 802.11b or Bluetooth wireless options. Our WLAN solution incorporates a user installable Cisco® PC card (PCMCIA), which connects the 8i High Speed 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 the WPAN.



# Standard Features at a Glance

- Reports, invoices and receipts are downloaded and printed on the spot.
- Optional real-time anywhere, anytime connectivity enables data to be uploaded or accessed without a physical network connection.
- Rugged design withstands the harshest of road conditions.
- Easy-to-load/unload paper reduces driver training and enhances reliability.
- Operates from a vehicle's 12-volt power system, no expensive voltage adapters are needed.
- Multiple mounting options allow mounting wherever needed – from a bulkhead/wall to the dashboard/console.
- Programmable sleep mode extends vehicle battery life.
- Printer fonts are stored in Flash memory and are easily upgraded as new fonts become available.



## Specification Highlights **microFlash® 8i Serial & Wireless Portable Impact Printer**

Physical Characteristics	microFlash® 8i	microFlash® 8i High Speed, Bluetooth®, 802.11b
Dimensions	15.5" x 11.75" x 4.25" (39.4 x 29.8 x 10.8 cm)	15.5" x 11.75" x 4.25" (39.4 x 29.8 x 10.8 cm)
Weight (printer only)	101.4 oz (2.785 kg)	102.92 oz (2.918 kg)
Weight (with battery, adapter, bag & paper)	182 oz (5.160 kg)	183.52 oz (5.203 kg)
Drop Specification	3 ft (0.9 m)	3 ft (0.9 m)

### User Environment

Operating Temperature	-4° F to 104° F (-20° C to 40° 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

<b>Serial</b>	RS-232, up to 38.4k baud
<b>IrDA (8i only – not available in radio models)</b>	IrDA compliant infrared data communications, 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	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)
Authentication	Open or Shared key
Encryption	None, 40 bit, 128 bit WEP
DHCP	Supported
DNS	Supported
<b>Wireless PAN</b>	Integrated Bluetooth module
Network Environment	Ad hoc or piconet network environments
Protocol	Supports version 1.1 and 1.2 of the Bluetooth standard (SIG certified)

### Print Technology

Printhead	9 pin impact
Printhead Life	100 million dots
Print Speed (8i only)	180 characters per inch
Print Speed (8i High Speed, Bluetooth, 802.11b)	270 characters per inch
Ribbon Cartridge	2,000,000 characters

### Media

Type	3" width minimum to 8.5" x 11"/A4 maximum
Capacity	Up to 200 sheets
Number of Copies	Original + 3 copies

### Power Source

Battery (Optional)	12V NiMH, 4000 mAh (DR36®)
DC Input 1	(AC Adapter) 12-15V, built-in spike and surge protection
DC Input 2	(Cigarette Adapter) 12-15V, built-in spike and surge protection

### Battery Characteristics

Type	12V NiMH, 4000 mAh (DR36®)
Endurance	Prints approx. 178 – 11" invoices on a single battery charge
<b>8i High Speed, Bluetooth, 802.11b</b>	Prints approx. 201 – 11" invoices on a single battery charge
Battery Life	80% of original capacity after 300 cycles
Recharging	3.5 to 4.5 hours from AC adapter or cigarette adapter

### Fonts & Languages

Memory Capacity	Flash/Ram Memory <b>8i</b> : 4/1 Mbit Flash/Ram Memory <b>8i High Speed, Bluetooth, 802.11b</b> : 8/4 Mbit
Standard Fonts	10 CPI Pica/Elite & 12 CPI Pica/Elite (additional fonts available)
International Characters	Arab-T, Arab-S, Arab-E, Cyrillic (Cy110 & CY210), Greek (GRDOS & GRWIN), Hebrew (HB110, HB210, HB310), Latin & Turkish (additional international characters available)
Graphics	Supports transient "print once" graphics

### Agency Approvals

FCC B, CE, C-Tick, E-Mark
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### Warranty

1 year (including printer case and printhead*)
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### Options/Accessories

• AC Adapter	• Mounting Brackets (locking/non-locking)
• Battery	• Power Cables
• Cigarette Lighter Adapter	• Ribbon/Purple Ribbon
• Cradles for Hand-Held Devices	• Softcase for Printer
• DB9 F Cable (coiled/non-coiled)	

\*When used with approved ribbon.

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