



Andes 3

3" (80mm) Heavy Duty Receipt/Label Printer for multiple applications

- Injection moulded ABS/PC blend with elastomer over-moulds for extra protection
- High impact resistance and high temperature strength
- Chemical and UV resistance and flame retardant
- Up to 6 feet (2 meter) multiple drops to all corners and sides
- Holds paper roll with over 120 ft/40 meters in length
- Transparent door inserts – see when paper roll is running low
- Double locking paper door closure
- Metal tear bar
- Serial and USB*
- Wireless: IrDA, Bluetooth™ or 802.11b/g
- MCR – 3 Track and/or Smart Card

Andes 3 Design Details

Power

- Powered by high capacity Lithium-Ion battery cartridge (7.4V; 2200mAh)
- Battery charges internally to the printer or in external 2-bay battery charger
- AC Power charging adaptor for charging with battery in printer
- Direct vehicle battery input (10.8 to 30VDC)
- Vehicle docking station*
- Hardware and Software power management

Highly Integrated 32 Bit Arm 7 Microcontroller

- Flash based Integrated CPU contains firmware, resident fonts, rotated fonts, downloadable fonts, graphics, multiple logos, and bar codes (Linear and 2-D)
- Internal and external memory - with 4MB Flash and 1MB SRAM memory under direct user control
- Manages all the features supported by the printer

Low Power Precision Regulator Circuits

- 10 bit 4 channel A/D circuit to measure system and printer mechanism voltage levels, battery and thermal print head temperature
- Fail safe and CPU watchdog circuits

SEIKO Thermal Print Head

- Easy Load Clamshell style paper load system with slide button release for paper door
- Automatic thermal print contrast control
- High speed, high resolution print
- Built-in detectors to monitor voltage and paper-out

Easy to Integrate

- Multiple Communication Interfaces including IrDA, Bluetooth™ and 802.11b/g
- MS-DOS and Windows compatible with full-speed handshake
- Print Drivers available for Windows 95, 98, 2000, XP
- Print Utilities available for most Mobile Operating Systems (including Windows CE, Pocket PC, .NET, .NET CF, WM5 and Palm)

Special Features

- Page printing utility (Form Fiesta)
- Voltage boost circuit for speed and contrast management
- Various resident fonts to enable printing from 12 to 24 characters per inch
- In-field programmable for firmware, fonts and logo setup
- 2 Sensors in 3L version
- Allows for default parameters to be in-field customized
- Two-bay battery charger
- Multiple color LEDs for user feedback
- DMA and USB file system

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Andes 3

Print Mechanism	
Printing Method	Direct Thermal
Print Resolution	203 dpi/ 8 dots mm
Dots per Line	832
Printing Width	2.83" (72mm)
Paper Feed Pitch	0.125mm
Printer Speed	Mechanism is rated at 3.35" per second (85mm/sec) @ 7.5 Volts (actual print speed is application, temperature and communication dependent)
Number of Heat Elements	1heater/dot, 170 ohms/dot
Head Temperature Detection	By thermistor with hardware protection against overheating
Paper-out / (TOF) Detection	By photo interrupter
Reliability	100 million MCTF (mean characters until fail) at 25% density
Standard Operating Features	
Character Set	ASCII International, PC Line Draw
Additional Character Sets	Simplified/Traditional Chinese, Hebrew, Arabic, Polish, Korean, Vietnamese, Turkish
Optional Character Sets	Downloadable fixed-width fonts
Graphic print	Supports 8-bit graphic printing, page printing, custom fonts and logo downloading
Bar Code Symbologies	Linear: Codes 39, Code128, UCC/EAN-128, Interleaved2 of 5, UPC-A, UPC-E, EAN/JAN-8, EAN/Jan-13, Codabar 2 Dimensional: PDF417*
Supervisory Commands	Commands available to read battery voltage, buffer status, firmware and hardware version
Memory SRAM	64KB (internal to CPU reserved for system application) 1MB (external under user control)
Memory Flash	256KB + 16KB (internal to CPU reserved for system application and resident features) 4MB (external under user control)
Characters per line	36, 48, 57, 60, 64, 72, 96 (s/w command)
Print contrast	Auto and user selectable
Print Character Attributes	Double high, double wide, bold print, underline print line spacing and reverse print
Communication	
Standard Interface	RS232C (up to 115.2KB depending on computer capability) USB* IrDA (up to 38.4K depending on computer capability)
Optional Interface	Bluetooth™ V2.0 (optional) WLAN 802.11b/g (optional)
Selectable Baud Rate	2400 – 115.2Kb (by Dip Switch)
Handshaking	Hardware (CTS/RTS) and/or Software (XON/XOFF)
Print Media For optimum print quality and printer performance, use Extech supplied paper	
Media Type	Direct Thermal Paper, Tag, Stock and Label
Paper Width	3.125" (80mm)
Max Roll Size	130' @ OD: 2.2" (Standard receipt paper provided is Kansaki P390; other grades available)
Roll Core ID	0.4"
Power	
Battery	Internal rechargeable 2 cell Lithium-Ion (7.4V; 2200 mAh)
Battery Life	80% of original capacity after 300 cycles
Recharging	3 hours @ fast rate charge (at empty)
External Charging Options	DC Power Pack: 100–240V AC input, 10V/1.4 A DC output In-Vehicle Charger: 12V/24V Cigarette Lighter adaptor
Power ON/OFF	Power ON/OFF switch, or by raising RTS input; or sending a single character through serial input. Auto power down timer, can be set or disabled through user application.

Software	
	Extech Logo downloading utility Extech Bluetooth™ configuration utility Extech Form Fiesta page printing utility Extech 802.11b/g configuration utility*
User Interface	
Status indicators	4 LEDs (3 are multi functioning) - Power/Communication Mode, Battery Status/Charging, MCR, Error
User switches	2 switches – On/Off, Feed
Connection	RJ type (6 pin) for Data I/O Infra-Red (IrDA) with Ambient Light Filter Bluetooth™ v 1.2 (optional) WLAN 802.11b/g (optional) Magnetic Card Reader (optional) Smart Card Reader (optional)
Mechanical	
Construction	Cyclac KJW Enclosure with elastomer over-moulds
Dimensions	4.75"W x 6.5"L x 3.5"H (120W x 165L x 89H mm)
Weight	Printer Only: 1.6 lbs (650g) Printer with paper and battery: 2.2 lbs (967g)
Warranty	Standard: One year Optional: Up to 5 year programs available at extra charge
OEM Products	Design services available
Environmental Specifications	
Operating Temperature	14° to 122°F (-10° to 50°C)
Storage Temperature	-4° to 140°F (-20° to 60°C)
Charging Temperature	32° to 122°F (0° to 50°C)
Humidity	10 - 90% RH (non-condensing)
Drop	Exceeds industry standard for drop
Agency Approvals	
FCC: Part 15 Subpart B, Class B CE: EN60950 CE: EN55022 Class B; CE: EN61000-3-2; CE: EN61000-3-3; CE: EN50024 AS/NZ: 3548 Class B	Complies with EMC Directive 89/336/EEC and Low Voltage Directive 73/23/EEC Conforms to ANSI/UL STD 60950 and Certified to CAN/CSA STD C22.2 No. 60950-00 CB Certified, No. 60950-00 GS Certified, #04US00384-1 ETL Listed, control # 3046813 IEC 68 certified, IP54 (with Environmental Case)
Ordering Information The Andes 3 comes standard with IrDA, USB*, battery, 1 roll of paper and a 1 year warranty	
78932811	Andes 3 with IrDA Interface, add R for Magnetic Card Reader (i.e. 78932812R-1), add S for Smart Card Reader, add RS for MCR and Smart Card Reader, add -1 for Bluetooth option (i.e. 78932812R-1), add -2 for 802.11b/g
Accessories	
151133	12/24V In-Vehicle Adaptor (Battery in printer)
756998-2	Belt Loop System
757352	Shoulder Strap
157260	Universal Wall Mount Charging AC Adapter (US, UK, Euro and AUS plugs included)
757068	Spare paper, pkg. of 5 rolls
757068-CASE	Spare paper (case of 200 rolls)
7A100014	Spare battery (2200 mAh)
767400-1	Battery charger (2-Bay) 120VAC
767400-2	Battery charger (2-Bay) 220VAC
767400-4	Battery charger (2-Bay) 240VAC
5892RJD9	Coiled Cable (RJ to D9)

*available by end of 2007

All manufacturers trademarks acknowledged. Specifications subject to change without notice. Issue 1 - 2007

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