

Overview:

Print and encode a variety of UHF RFID smart labels for nearly any application with 486003 high-performance, industrial RFID printer/encoder. Specifically engineered for high-volume operations in harsh environments, the proven 486003 printer/encoder leverages the built-to-last printer platform for robust performance. Designed to grow with your evolving business needs, it gives you innovative, industry-leading features to meet the demands of your current and future applications.

486003 printers are legendary for their rugged durability, consistently outstanding print quality, fast print speed, long life and unparalleled reliability in demanding applications. These qualities translate into low total cost of ownership—making them a smart investment for organizations with high-volume, mission-critical or specialty labeling applications. 486003 printer/encoders feature an all-metal construction and are engineered for dependable, 24/7 performance in the harshest conditions. Designed for years of continuous use, they can withstand the most demanding operating environments.

Advanced and flexible features make the 486003 easier and faster to operate, customize, maintain and integrate. The 486003 features a front control panel with a large, bright, easy-to-read LCD and a customizable menu that supports a wide variety of languages—great for multinational operations.

Easily integrate the 486003 with a variety of connectivity choices including Serial, simultaneous Parallel/Ethernet, internal 10/100 Print Server (Ethernet), and optional secure 802.11b/g wireless connectivity. Reduce downtime and proactively plan supply changes with advanced ribbon- and media-low sensing capabilities. Ensure optimum print quality with on-board diagnostic tools and adjustments.



Standard Features & Benefits

Supports tags compatible with UHF EPC Gen 2 V2, ISO/IEC 18000-63 and RAIN RFID protocols	Full-function front panel and large multilingual back-lit LCD display with user-programmable password protection
Prints and encodes tags with a pitch of 0.6"/16 mm	Clear media side door enables easy monitoring of supplies usage without opening the printer systems
Adaptive Encoding Technology automatically selects optimum encoding settings	Thin film printhead with Element Energy Equalizer
Auto-tag calibration for label lengths of 2" or greater	64 MB Flash memory
Variable inlay placement supports a range of inlay positions for maximum media flexibility	Serial RS-232 and bi-directional Parallel ports with auto detect
RFID counters keep track of the good and bad labels	USB 2.0
RFID processes optimized for fastest label throughout	Transmissive and reflective dual media sensors are selectable through software or front panel
RFID ZPL® commands allow ease of RFID setup with maximum flexibility	Real-time clock
Variable RFID power settings for both read and write allow maximum flexibility for printing small labels	Advanced label/media counters
Internal 10/100 Print Server — supports 10Base-T, 100Base-TX and fast Ethernet 10/100 auto-switching networks	

Specifications:

PRINTER SPECIFICATIONS

Resolution	203 dpi/8 dots per mm; 300 dpi/12 dots per mm; 600 dpi/23.5 dots per mm
Memory	64 MB Flash; 16 MB RAM, Maximum Print Width 4.0"/102 mm
Maximum Print Width	14"/356 mm per second (203 dpi); 12"/305 mm per second (300 dpi); 6"/152 mm per second (600 dpi)
Maximum Print Speed	Transmissive and reflective

Media Sensors	Transmissive and reflective
Maximum Print Length	150"/3810 mm

MEDIA CHARACTERISTICS

Media Width	0.79"/20 mm to 4.5"/114 mm
Media Roll Size	8"/203 mm OD on a 3"/76 mm ID core
Thickness	0.003"/0.076 mm to 0.012"/0.305 mm
Media Types	Continuous, die-cut or black mark, notch

RIBBON CHARACTERISTICS (Thermal-transfer option only)

Standard Length	1476'/450 M or 984'/300 M
Core I.D.	1"/25.4 mm inner diameter (ID)

OPERATING CHARACTERISTICS

Environmental	Operating Temperature: 40°F to 105°F/5°C to 40°C Thermal transfer: 40°F to 105°F/5°C to 40°C Direct thermal: 32°F to 105°F/0°C to 40°C Operating Humidity: 20% to 85% non-condensing Storage/Transportation Temperature: -40°F to 140°F/-40°C to 60°C Storage Humidity: 5% to 85% non-condensing
Electrical	90-264 VAC; 48-62Hz
Agency Approvals	IEC 60950-1, EN 55022 Class B, EN 55024, EN 61000-3-2, EN 61000-3-3 Product Markings: FCC-B, C-Tick

PHYSICAL CHARACTERISTICS

Length	20.38"/517.5 mm
Width	10.31"/261.9 mm
Height	15.5"/393.7 mm
Weight	50 lbs/22.7 kg

COMMUNICATION AND INTERFACE CAPABILITIES

- 10/100 Print Server — supports 10Base-T, 100Base-TX and fast Ethernet 10/100 auto-switching networks.

- USB 2.0 — 12 Mbits/second
- High-speed bi-directional Parallel interface with auto detect — IEEE 1284-1994 compatibility, ECP, nibble mode
- High-speed Serial interfaces:
 - ❖ RS-232C with DB9F connector, optional converter for DB25F available
 - ❖ Optional RS-422/485 with multidrop capability to network multiple printers from a single host with external adapter
- Applicator interface — with DB15F connector

BARCODE SYMBOLOGIES

- Linear Barcodes: Code 11, Code 39, Code 93, Code 128 with subsets A/B/C and UCC Case Codes, ISBT-128, UPC-A, UPC-E, EAN-8, EAN-13, UPC and EAN 2-or 5-digit extensions, Plessey, Postnet, Standard 2-of-5, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Codabar and Planet Code
- 2D Barcodes: Codablock, PDF417, Code 49, DataMatrix, MaxiCode, QR Code, MicroPDF417, TLC 39, GS1DataBar, RSS), Aztec

FONTS AND GRAPHICS

- Unicode™-compliant Global Printing
- Bitmap fonts A through H and GS symbols are expandable up to 10 times, height and width independent
- Smooth scalable font Ø (CG Triumvirate™ Bold Condensed*) is expandable dot-by-dot, height and width independent
- IBM® Code Page 850 International Characters
- Supports user-defined fonts and graphics — including custom logos
- Contains UFST® from Monotype Imaging, Inc.
- 61 MB user-available non-volatile memory storage for downloadable objects
- 12 MB user-available SDRAM

OPTIONS AND ACCESSORIES

- Clear media side bi-fold door — allows shorter media door opening radius
- Full-width rotary knife cutter and catch tray — operates under software control cutting labels individually or in strips
- Media rewind spindle — rewinds finished roll internally onto 3"/76 mm core or enables label peel and liner rewind
- Applicator interface — provides status and control signals for applicators and remote control devices
- Media supply spindle for 3"/76 mm core or 1.57"/40 mm core
- Additional fonts