



## COGNITIVE ANNOUNCES UHF RFID EQUIPPED THERMAL PRINTERS

### NEW FOR 2005

A new era in supply chain technology is upon us with the adoption of RFID. Most likely you fall into one of three categories: The Early Adopter, Must be Compliant Vendor, and the Curious Information Gatherer. Whatever the case may be, if you want to play in the game you have to be compliant and/or compliant ready in the very near future.

### COGNITIVE'S SOLUTION TO RFID

Cognitive's Advantage RFID UHF printer will incorporate RFID technology into the platform without sacrificing price, performance, reliability, and ergonomics. Both the Advantage RFID HF and UHF printers have the RFID technology built-in to provide a compact solution that reduces cost and price to the end user.

### OPERATION OVERVIEW

Cognitive's RFID barcode label printers provide an integrated solution for traditional barcode labeling and writing an RFID tag. Using an RFID label, the printer can simultaneously write RFID data and print a barcode label. It can also perform either operation independently, offering you the flexibility you need for business.

### FEATURES AND BENEFITS

The Advantage RFID printer provides the best of both auto-id worlds – the ability to print barcode labels and write data to RFID tags. This built-in labeling solution is both affordable and easy to integrate. The printer is capable of printing both direct thermal and thermal transfer labels and tags in a host and network system.

### APPLICATIONS

- Shipping and Logistics – Remarketing for RFID tags
- Healthcare – Asset tracking (i.e. medical equipment)
- Retail – Pallet & case compliance labeling
- DOD – Logistics management
- Standalone keyboard/scanner input device system

Advantage Rfid

## TECHNICAL SPECIFICATIONS

	Printer Model	LBT42-2043-Hxx
Printing	Technology	Direct Thermal or Thermal Transfer
	Width (max)	4.1" (104mm)
	Length (max)	20"(513mm) @ 203dpi 80"(2032mm) @ 100dpi
	Speed (max)	3 ips
	Resolution	101 or 203 selectable (300 dpi option)
Communications	Standard	Serial and Parallel LHT42-2043-0x3
	USB Option	Option to standard serial port
	Ethernet Option	LHT42-2043-0x6 Ethernet Option Includes serial and parallel
Physical Attributes	Width	6.8" (173mm)
	Height	6.1" (155mm)
	Depth	9.4" (238mm)
	Weight	4.4lbs (2.0kg)
RFID	Frequency	860-960 MHz
	Functionality	Read/Write/Verify
	Standards Compliant	ISO18000-6A/B, EPC Class 0,1,1.2
	Read Range	1 meter
	Antenna Location	Integrated into paper path
	Compatible RFID Tags	EPC Class 0
		EPC Class 0+
		EPC Class 1
		EPC Class 1.2
		ISO 18000-6A
		ISO 18000-6B
		EM4222
		iPico



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Limited warranty included

\*Authorized distributor.



## HF RFID EQUIPPED THERMAL PRINTERS

### RFID SOLUTIONS

Cognitive is proud to offer the most affordable and space saving RFID equipped printer on the market. We have incorporated RFID technology into the reliable Advantage LX printer platform without sacrificing price, performance, reliability, and ergonomics. While other manufacturers are attaching RFID equipment to their base product, Cognitive has incorporated the technology right into the printer's chassis. What you get is a simple compact solution that reduces cost and price to the end user.

### OPERATION OVERVIEW

Cognitive's RFID barcode label printers provide an integrated solution for traditional barcode labeling and writing an RFID tag. Using an RFID label, the printer can simultaneously write RFID data and print a barcode label. The printer is not limited to performing both operations simultaneously; it can perform either operation independently. So if you just want to print labels or write data to RFID tags, you can do it with a Cognitive Solutions RFID printer.

### FEATURES AND BENEFITS

The Cognitive RFID printer provides the best of both auto-id worlds – the ability to print barcode labels and write data to RFID tags. This built-in labeling solution is both affordable and easy to integrate. The Advantage LX RFID prints both direct thermal and thermal transfer labels and tags in a host and network system or in a standalone keyboard or scanner input device system.

### APPLICATIONS

- Pharmacy – Anti-Counterfeiting
- Library – Usage Tracking
- Health Care – Patient Identification
- Retail – High Value Items

Advantage **RFid**

## TECHNICAL SPECIFICATIONS

	Printer Model	LBT24-2043-Hxx	LBT42-2043-Hxx		
Printing	Technology	Direct Thermal or Thermal Transfer	Direct Thermal or Thermal Transfer		
	Width (max)	2.2"(56mm)	4.1" (104mm)		
	Length (max)	40"(1016mm) @ 203dpi 160"(4064mm) @ 100dpi	20"(513mm) @ 203dpi 80"(2032mm) @ 100dpi		
	Speed (max)	3 ips	3 ips		
	Resolution	101 or 203 selectable	101 or 203 selectable (300 dpi option)		
Communications	Standard	LHT24-2043-0x1 Serial LHT24-2043-0x2 Parallel	Serial and Parallel LHT42-2043-0x3		
	USB Option	Option to standard serial port	Option to standard serial port		
	Ethernet Option	LHT24-2043-06 Ethernet Option Includes serial	LHT42-2043-0x6 Ethernet Option Includes serial and parallel		
Physical Attributes	Width	5" (127mm)	6.8" (173mm)		
	Height	6.1" (155mm)	6.1" (155mm)		
	Depth	9.4" (238mm)	9.4" (238mm)		
	Weight	3.9lbs (1.77kg)	4.4lbs (2.0kg)		
RFID	Frequency	13.56MHz	13.56MHz		
	Functionality	Read/Write/Verify	Read/Write/Verify		
	Standards Compliant	ISO15693; ISO14443; EPC	ISO15693; ISO14443; EPC		
	Data Rate	26kbps (ISO15693) 106kbps (ISO14443)	26kbps (ISO15693) 106kbps (ISO14443)		
	Read Range	3"(75mm)	3"(75mm)		
	Antenna Location	Integrated into paper path	Integrated into paper path		
	Compatible RFID Tags	Tag-It HF-I ICode SLI my-d LRI512 Tag-It HF ICode PicoTag GemWave Mifare	2k 1k 2k,10k 0.5k 0.5k 1k 2k,16k id data only id data only	Texas Instruments Philips Infineon St Microelectronics Texas Instruments Philips Inside Contactless TagSys Philips	ISO15693 ISO15693 ISO15693 ISO15693 Proprietary Proprietary Proprietary Proprietary ISO14443A

**Cognitive**  
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# Are you looking to Introduce RFID into your Company?

Cognitive Announces the 13.56 MHz Development Kit... A One Stop Solution.

Cognitive's RFID Development Kit is a bundled solution that will enable you to perform all of your evaluation and development requirements in order to be RFID compliant, or RFID ready. The kit includes everything you need to begin experimenting and installing RFID in your organization.

**RFID HF/Scanner** – a 13.56 MHz USB reader/writer to verify RFID tags.

**13.56 MHz RFID Printer** – the 2.4" DT/TT HF model is built on the same chassis as the Advantage LX... a high performance, durable, and reliable printer with a metal mechanism to prevent RF collision problems.

**RFID Development Software** – complete with drivers and a professional software suite from Niceware.

**Cables and Accessories** – includes a serial null modem cable.

**User Guide and Marketing Materials** – consists of product specifications, applications and companion CD ROM.

**RFID labels and wristbands** – includes Direct Thermal wristbands and 2"x 2" Thermal Transfer labels and a wax-resin ribbon.

- Ease the learning curve associated with RFID technology.
- Start producing RFID tags immediately.
- Set the foundation for future RFID compliance standards.
- Enjoy the benefit of a Bar Code and RFID printer in one.

**List price**  
**\$3225**



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