



H-427+ 203 DPI 7 IPS

H-435+ 300 DPI 5 IPS

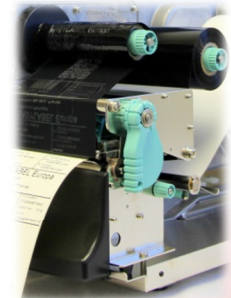
From the creators of **EASYLABEL®** the Tharo H-Plus Series is a robust industrial barcode label printer in the mid-level price range.



Color LCD and button panel for easy configuration



Multiple interface ports standard
USB host port for standalone



Affordable high speed printing at up to 7 IPS

Simply the best value for your most demanding applications

THARO SYSTEMS, INC.
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MODEL		H-427+	H-435+
Print Method		Thermal Transfer / Direct Thermal	
Resolution		203 DPI (8 dots/mm)	300 DPI (12 dots/mm)
Print Speed		Up to 7IPS (177mm/s)	Up to 5IPS (127mm/s)
Print Width		4.09" (104mm)	4.09" (104mm)
Print Length		Min. 0.16"(4mm)**-Max. 100"(2540mm)	Min. 0.16"(4mm)**-Max. 45"(1143mm)
Processor		32-bit RISC CPU	
Memory	Flash	8MB Flash (4MB for user storage)	
	SDRAM	16MB	
Sensor Type		Adjustable reflective sensor and transmissive sensor, left aligned	
Media	Types	Continuous form, gap labels, black mark sensing and punched hole. Label length set by auto-sensing or programming	
	Width	Standard: Min. 1" (25.4mm) - Max. 4.64" (118mm)	
		Cutter: Max. 4.61" (117mm)	
	Dispenser / Rewind: Max. 4.64" (118mm)		
	Thickness	Min. 0.003" (0.06mm)-Max. 0.01" (0.25mm)	
Label Roll	Max. 8" (203.2mm) outer diameter		
Core	Min. 1.5" (38.1mm) diameter		
Ribbon	Types	Wax, Wax/Resin, Resin	
	Length	Max. 1476' (450m)	
	Width	Min. 1.18" (30mm) - Max. 4.33" (110mm)	
	Core	1" (25.4mm) inner diameter	
Printer Language		Tharo Programming Language (TPL), Zebra Emulation*, Eltron Emulation*	
Software	Design	FREE EASYLABEL® Start	
	Driver	XP/Vista/Windows 7-10, Mac, Linux	
Resident Fonts	Bitmap	6, 8, 10, 12, 14, 18, 24, 30, 16x26 and OCR A&B Bitmap fonts and single characters 90°, 180°, 270° rotatable	
	True Type	CG Triumvirate™ (Bold, Italic, Underline) 0°, 90°, 180°, 270° rotatable	
Downloadable Fonts	Bitmap	Bitmap fonts and single characters 90°, 180°, 270° rotatable	
	Asian Fonts	16x16, 24x24, Traditional Chinese (BIG-5), Simplified Chinese(GB2312), Japanese (S-JIS), Korean (KS-X1001), 90°, 180°, 270° rotatable, 8 times expandable	
	True Type	90°, 180°, 270° rotatable	
Bar Codes	1-D	Code 39, Code 93, EAN 8/13 (add on 2 & 5), UPC A/E (add on 2 & 5), I 2 of 5 & I 2 of 5 with Shipping Bearer Bars, Codabar, Code 128 (subset A, B, C), EAN 128, RPS 128, UCC 128, UCC/EAN-128 K-Mart, Random Weight, Post NET, ITF 14, China Postal Code, HIBC, MSI, Plessey, Telepen, FIM, GS1 DataBar, German Post Code, Planet 11 & 13 digit, Japanese Postnet, I 2 of 5 with human readable check digit, Standard 2 of 5, Industrial 2 of 5, Logmars, Code 11, Code 49, Codablock	
	2-D	PDF417, Micro PDF417, Datamatrix, Maxicode, QR code, Micro QR code and Aztec code	
Code Pages		Codepages 437, 850, 851, 852, 855, 857, 860, 861, 862, 863, 865, 866, 869, 737, Windows 1250, 1251, 1252, 1253, 1254, 1255, 1257, Unicode UTF8, UT16BE, UTF16LE	
Interfaces	USB 2.0 (B-Type)		
	Serial Port RS-232 (DB-9)		
	IEEE 802.3 10/100 Base Tx Ethernet Port (RJ-45)		
	USB Host (A Type)		
Control Panel	Color TFT LCD with navigation buttons		
	Power on/off button with dual color LED: READY/ERROR		
	Control key : FEED/PAUSE/CANCEL		
	1 Calibration button at rear panel		
Real Time Clock		Standard	
Power		Auto-switching 100V-240V AC, 50Hz - 60Hz	
Environment	Operating	41°F to 104°F (5°C to 40°C)	
	Storage	-4°F to 122°F (-20°C to 50°C)	
Humidity	Operating	30-85% non-condensing	
	Storage	10-90% non condensing	
Agency Approvals		CE (EMC), FCC Class A, CB, UL, cUL, CCC	
Dimensions		L 20.15" (512mm) x H 11.45" (291mm) x W 10.78" (274mm)	
Weight		33 lbs. (15 Kg), excluding consumables and options	
Options	Cutter		
	Parallel port adapter (Centronics female 36-pin)		
	Bluetooth		
	External label rewinder		
	Label dispenser + Internal rewinder		
*Specifications are subject to change without notice. All company and/or product names are trademarks and/or registered to their respective owners.			
**Minimum Print Length and Maximum Print Speed may vary for non-standard media types. Tharo provides free testing of all media types prior to purchase.			

Tharo H-Plus Series Industrial Printer



Advanced PIN Pad

EPP810



- Versatile payment PIN pad
- PCI approved for secure transactions
- User friendly ergonomics
- Rugged and durable
- Ideal for retail and financial applications



SECURITY



PINPAD

Durable design

Vandal proof and water proof , IK09 & IP65

Wide operation temperature range -20° C to 65° C

Easy to use

Provide RS232 & USB interface with 1 connector. Just need to plug the cable.

High performance

32bits RISC processor , with hardware crypto engine.

High security

PCI4.x

Support MAC, Triple DES, ISO9564-1, DUKPT

Tamper Evidence and Responsive



EPP810

Advanced PIN Pad

FEATURES AND BENEFITS

Advanced Security

PCI 4.0 approved. The EPP810 meets the highest levels of security measures to ensure transactions.

Pins are protected by Triple DES, Master key/Session key or DUKPT key.



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SPECIFICATIONS

Electrical	
Processor	32-bit processor
Memory	Flash 256KB,SRAM 128KB
Power Requirement	+5VDC
Interface	RS232(9,600-115,200bps)or USB 2.0
Extendibility	External 2 sets of 4x1 function keys, External beeper
Mechanical	
Dimensions	(L)122 x (W) 100 x (H) 32 mm
Panel material	Plastic Cover
Keypad	10 numerical keys and 6 function keys. Key is made of stainless steel with color graphics text on function keys.
Environmental	
Operation Temperature	-30°C to 70°C
Storage Temperature	-20°C to 65°C
Operation Humidity	10% to 90% non-condensing
Storage Humidity	10% to 90% non-condensing
Vandal Resistant	Meet IK09
Water Resistant	Meet IP65
Agency Approval	
	FCC/CE
Security Approval	
	PCI PTS 4.0
Performance	
Key Management	Master key / Session key and DUKPT key
Encrypting PIN block	ANSI X9.8 format
Generates MAC	ANSI X9.19 standard
Encryption method	TDES



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