

Technical data



● Typical ○ Possible ■ Standard □ Option

Device type		Material guide		Left-aligned				Centered			
Type of print head				4.3	4.3	4	4	4.3	4.3	4	4
Printing method	Thermal transfer			●	●	●	●	●	●	●	●
	Direct thermal			●	●	○	○	●	●	○	○
Printable resolution		dpi		203	300	300	600	203	300	300	600
Print speed			up to mm/s	250	250	300	150	250	250	300	150
Print width			mm	104	108.4	105.7	105.7	104	108.4	105.7	105.7
Printable area	Distance to locating edge	when left-aligned	mm	2.8	1.2	2.0	2.0	-	-	-	-
		when centered	mm					Centered on material			
Material¹⁾											
On roll or fanfold:	paper, cardboard, ready-for-use tubes, plastics PET, PE, PP, PI, PVC, PU, acrylate, Tyvec							●			
On roll, reel or fanfold:	pressed continuous tubes, textile, Smart Labels			-				●			
Labels	Width ²⁾	mm		20 - 116				4 - 110			
	Height ¹⁾	mm		6 - 2,000				4 - 2,000			
	Thickness	mm		0.03 - 0.60				0.03 - 0.60			
Liner material	Width	mm		24 - 120				9 - 114			
	Thickness	mm		0.03 - 0.13				0.03 - 0.13			
Continuous material	Width	mm		24 - 120				4 - 114			
	Thickness	mm		0.05 - 0.50				0.05 - 0.50			
	Weight (cardboard)	up to g/m ²		300				300			
Pressed tube	Width ready-for-use	up to mm		120				114			
	Width continuous	mm		-				4 - 85			
	Thickness	up to mm		1.1				1.1			
Roll	Outer diameter	up to mm		205				205			
	Core diameter	mm		38.1 - 100				38.1 - 100			
Reel	Outer diameter	up to mm		-				205			
	Core diameter	mm		-				38.1 - 76			
	Outer width	mm		-				11 - 114			
Winding				Outside or inside				Outside or inside			
Ribbon²⁾											
Ink side				Outside or inside							
Roll diameter		up to mm		80							
Core diameter		mm		25.4							
Variable length		up to m		450							
Width ²⁾		up to mm		25 - 114							
Internal rewinder with dispensing device											
Outer diameter		up to mm		142							
Core diameter		mm		38.1 - 40							
Winding				Outside							
Printer sizes and weight											
Width x Height x Depth		mm		252 x 288 x 460							
Weight		kg		10							
Label sensor with position indication											
Gap sensor				For label front edge or punch marks and end of material							
Reflective sensor from below or top				For print mark front edge and end of material							
Distance sensor	to locating edge	Left-aligned	mm	5 - 60				-			
	from center to locating edge	Centered	mm	-				0 - 55			
Height of material passage		mm		2				2			
RFID											
Write/read device	HF	ISO/IEC 15693, 13,56 MHz		-				□			
	UHF	ISO/IEC 18000-6C/EPC Class 1 Gen 2		-				□			
Electronics											
Processor 32 bit clock rate		MHz		800							
Main storage (RAM)		MB		256							
Data storage (IFFS)		MB		50							
Plug-in for SD memory card (SDHC, SDXC)		up to GB		512							
Battery for time and date, real-time clock				■							
Data storage when power turned off (e. g. serial numbers)				■							
USB WLAN stick 802.11b/g/n 2.4 GHz				■ (included as extra item in scope of delivery)							
Interfaces											
RS232C 1.200 to 230.400 baud/8 bit				■							
USB 2.0 Hi-speed Device for PC connection				■							
Ethernet 10/100 BASE-T				LPD, IPv4, IPv6, RawIP printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, NTP, Zeroconf, SOAP web service							
1 x USB host at the operation panel for				Service key or USB memory stick							
1 x USB host at the operation panel for				USB WLAN stick 802.11b/g/n 2.4 GHz							
2 x USB host on the back of the device for				Keyboard, barcode scanner, USB memory stick, USB Bluetooth adapter, USB WLAN stick 802.11b/g/n 2.4 GHz + a/n/ac 5 GHz with rod antenna							
WLAN 802.11b, g, n, access point or station mode		GHz		2,4 ■ / 5 □							
Peripheral connection USB host, 24 DC				■							
Digital I/O with 8 in- and outputs	Dispensing/basic device			■/□							

¹⁾ Limitations may apply to small labels, thin materials or strong adhesives. These applications need to be tested and approved.

²⁾ Ribbon at least according to width of label material in order to avoid folding.

■ Standard □ Option

Operating data		
Power supply	100 - 240 VAC ~ 50/60 Hz, PFC	
Power consumption	Standby < 10 W / typical 150 W / maximum 300 W	
Temperature / Operation	0 - 40°C / 10 - 85% not condensing	
humidity	Storage	0 - 60°C / 20 - 85% not condensing
	Transport	-25 - 60°C / 20 - 85% not condensing
Approvals	CE, FCC class A, CB, CCC, cUL	
Operation panel		
	Touchscreen LCD color display	
Screen diagonal	4.3"	
Pixel W x H	272 x 480	
Settings		
	Region: languages country keyboard time zone Print Dispense Cut Apply	Time/date Labels Ribbon Error handling Interpreter/emulation Interfaces
On display		
	Digital clock Data reception WLAN field intensity Ethernet status Bluetooth status Data recording	USB slave status Ribbon remaining USB memory stick plugged in SD memory card plugged in
Control		
	Ribbon direction of winding Ribbon pre-warning End of ribbon End of material Peripheral error	Print head tension Print head temperature Print head open Pinch roller open (with dispensing version and separator)
Testing		
System diagnosis	When device is switched on, including automatic print head detection	
Information display, status printout, analysis	List of fonts, list of devices, WLAN status, label profile, test grid, monitor mode, print data recorded on memory card	
Status reports	Printout of device settings, e. g. print length and runtime counter, machine status via software command, display of e. g. network errors - no link, barcode error, peripheral error etc.	
Fonts		
Font types	5 bitmap fonts including OCR-A, OCR-B and 3 vector fonts Swiss 721, Swiss 721 bold and monospace 821 internally provided, TrueType fonts loadable	
Character sets	Windows 1250 to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 to -10 and -13 to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, KOI8-R All Western and Eastern European characters, Latin, Cyrillic, Greek, Hebrew, Arabic, simplified Chinese and Thai characters are supported.	
Bitmap fonts	Size in width and height 1 - 3 mm Zoom factor 2 - 10 Orientation 0°, 90°, 180°, 270°	
Vector/ TrueType fonts	Size in width and height 0,9 - 128 mm Zoom factor freely adjustable Orientation 360° in steps of 1°	
Font styles	Bold, italic, underlined, outline, inverse - depending on the font type	
Character pitch	Variable or monospace for steady character pitches	

Graphics		
Graphic elements	Lines, arrows, rectangles, circles, ellipses, filled and filled with fading	
Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG	
Barcodes		
Linear barcodes	Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C EAN 8, 13 EAN/UCC 128/GS1-128 EAN/UPC appendix 2 EAN/UPC appendix 5 FIM HIBC	Interleaved 2/5 Ident and lead code of Deutsche Post AG Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0
2D and stacked codes	Aztec Codablock F DataMatrix PDF417 Micro PDF417 UPS MaxiCode QR code RSS 14 truncated, limited, stacked and stacked omnidirectional EAN/GS1 DataMatrix GS1 DataBar All codes are flexible in height, modular width and ratio. Orientation 0°, 90°, 180°, 270° Options: check numbers, plain writing printout and start/stop code depending on type of code	
Software		
Programming	Direct programming with printer language JScript abc Basic Compiler Database Connector	■ ■ ■
Emulation	ZPL	□
Control/ administration	Printer control Administration Network Manager	■ ■
Label software	cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print	■ ■ □ □
Also running with	CODESOFT NiceLabel EASYLABEL BarTender	
WHQL certified Windows printer drivers for	Windows Vista Windows 7 Windows 8 Windows 8.1 Windows 10	Server 2003 Server 2008 Server 2008 R2 Server 2012 Server 2012 R2
Apple Mac drivers	OS X printer drivers valid from version 10.6	
Linux drivers	Valid from CUPS 1.2	
Stand-alone operation		

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info@texpak.com

13 New Hyde Park Road, Franklin Square, New York 11010

800-645-3416