

soabar DTQ Specification

● typical ■ standard □ option

Label Printer			DTQ 4" Width	DTQ 2" Width
Guidance of materials			centered	centered
Print method	Thermal transfer		●	●
Print resolution	dpi		300	600
Print speed	mm/s max.		150	100
Print width	mm max.		105.7	54.1
Print length	mm max.		3,000	1,500
Automated ribbon saving			●	●
Materials ¹⁾				
Paper, cardboard, synthetics PET, PE, PP, PI, PVC, PU, acrylate, Tyvec			●	
Shrink tube	ready for use		●	
	continuous, pressed		●	
Textile tape			●	
Finishing	Roll, fanfold		●	
	Roll diameter	mm max.	300	
	Core diameter	mm	38.1 - 76	
	Winding		outside or inside	
Label	Width	mm	10 - 110	
	Height	mm at least	20	
	Thickness	mm max.	0.1	
Liner	Width	mm	14 - 114	
	Thickness	mm	0.03 - 0.16	
Continuous	Width	mm	4 - 114	
	Thickness	mm	0.03 - 0.5	
	Weight (cardboard)	g/m ² max.	300	
Shrink tube	Width	ready for use mm max.	114	
	continuous, pressed mm		4 - 85	
	Thickness	mm max.	1.1	
Ribbon ²⁾	Color side		outside or inside	
	Roll diameter	mm max.	80	
	Core diameter	mm	25.4	
	Length	m max.	450	
	Width	mm max.	114	
Printer dimensions, weight				
Width x Height x Depth / Weight		mm/kg	248 x 395 x 594 / 21	
Label sensors, position indicators				
Transmissive sensor		detecting	labels, punch marks, materials ending, print marks on translucent materials	
Reflective sensor	from below or top	detecting	labels, materials ending, print marks on non-translucent materials	
Sensor distance centre to locating edge		centered mm	0 - 55	
Material passage		mm max.	2	
Electronics				
Processor, 32 bit clock rate		MHz	800	
RAM		MB	256	
IFFS		MB	50	
Port for plugging a SD memory card (SDHC, SDXC)		GB max.	512	
Battery for indicating time and date, real-time clock			■	
Data kept in memory (e.g. serial numbers) when power turns off			■	
Interfaces				
RS232-C 1,200 to 230,400 baud / 8 bit		■		
USB 2.0 Hi-Speed device to plug a PC		■		
Ethernet 10/100 Mbit/s IPv4 and IPv6		LPD, RawIP printing, SOAP web service, OPC UA, WebDAV DHCP, HTTP/HTTPS, FTP/FTPS, TIME, NTP, Zeroconf, SNMP, SMTP, VNC		
2 USB hosts on the control panel, 2 USB hosts on the back of a unit		Service key, USB stick, USB WLAN stick, USB WLAN stick with a rod antenna, keyboard, barcode scanner, external control panel		
USB host, 24 VDC, for peripheral plugging		■		
Digital I/O interface		□		

¹⁾ Specifications are standards. Operations including small, slim, thick or stiff materials need testing, so do strongly adhesive labels.

²⁾ A ribbon should be at least as wide as the liner material.



Aftersales support
on going sales support
at no extra cost



Technical support
Telephone and remote desktop
support by soabar engineers



Free installation
Full onsite installation by our
team of trained engineers



Free training
Software and machine training
included with all our printers



On-site warranty
A full on site warranty is
included with our printers

Technical data

■ standard □ option

Operating data			
Voltage		100-240 VAC, 50/60 Hz, PFC	
Consumption of power		<10 W in standby / 100 W in typical operation / max. 200W	
Temperature / Operation		+5- 40°C / 10 - 85 %, not condensing	
humidity	Stock	0 - 60°C / 20 - 85 %, not condensing	
	Transport	-25 - 60°C / 20 - 85 %, not condensing	
Approvals		CE, UKCA, FCC Class A, ICES-3, cULus, CB CCC, BIS, BSMI, KC-Mark, Mexico Reg.	
Control Panel			
Color LCD touchscreen		Diagonal	" 4.3
		Resolution Width x Height	px 272 x 480
Setup options			
	Print Labels Ribbon Tear off Cut Interfaces Error	Region: - Language - Country - Keyboard - Time zone Time Display: - Brightness - Power saving mode - Orientation Interpreter	
Status bar			
	Receive data Record datastream Warning to a ribbon ending SD memory card plugged USB stick plugged	WLAN Ethernet USB slave Time	
Controls			
	Ribbon 1/2 - Winding - Prior warning - End of ribbon Running out of material	Print head 1/2 - Voltage - Temperature - open Peripheral error	
Test routines			
System diagnostics	upon startup, detection of print head included		
Information display, test printout, analysis	Status printout Font lists List of units WLAN status	Test grid Label profile List of events Monitor mode	
Status reports	- Printout of print durations, running hours, etc. Status of a unit requested by software command - Display of errors related to a network, barcode or peripheral device, as well as links missing		
Fonts			
Integral	5 bitmap fonts: 12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A OCR-B	7 vector fonts: AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold	
For storing	TrueType fonts		
Sets of characters	Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869 EBCDIC 500 ISO 8859-1 to -10 and -13 to -16 WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R Western European Eastern European Chinese, simplified Chinese, traditional Thai		
		Cyrillic Greek Latin Hebrew Arabic	

Fonts			
Bitmap	1 mm to 3 mm wide and high Zoom factors 2 to 10 0°, 90°, 180°, 270° orientations		
Vector / TrueType	0.9 mm to 128 mm wide and high Continuous zoom 360° orientation in steps of 1°		
Styles	bold, italic, underlined, outline, inverse - depending on the font type		
Character spacing	proportional or monospace		
Graphics			
Elements	lines, arrows, rectangles, circles, ellipses filled or gradient		
Formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG		
Codes			
1D barcodes (linear)	Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C EAN 8, 13 EAN/UCC 128/GSI-128 EAN/UPC Appendix 2 EAN/UPC Appendix 5 FIM HIBC	Interleaved 2/5 Ident and routing code of Deutsche Post Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0	
2D codes, stacked codes	DataMatrix DataMatrix Rectangle Extension QR code Micro QR code rMQR code GSI QR code GSI DataMatrix GSI Digital Link (QR and DataMatrix) PDF 417 Micro PDF 417 UPS Maxicode GSI DataBar Aztec Codablock F Dotcode RSS 14 truncated, limited, stacked, omni-directional All codes may vary in height, modular width and ratio. 0°, 90°, 180°, 270° orientations Feasibility of check digits, plain text printouts and start/stop coding depends on the type of code.		
Software			
Label Software	cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print		■ ■ □ □
Running also with	CODESOFT Software Spectrum NiceLabel BarTender		
Stand-alone operation			■
Windows printer drivers certified WHQL for	Windows 10 Windows 11	Server 2016 Server 2019 Server 2022	■
Apple printer drivers	Mac OS X 10.6 or any later release		■
Linux printer drivers	CUPS 1.2 or any later release		■
Programming	JScript printer language abc Basic Compiler ZPL II (datastream be tested in advance)		■ ■ □
Integration	SAP Database Connector		■ ■
Administration	Printer control Configuration on the Intranet and Internet		■ ■