

# Technical data

Label printers guiding materials aligned to the **left**

● typical ○ possible ■ standard □ option

Type		4+ 2" width		4+ 4" width Hard Wearing Head		4+ 4" width		4+ 6" width		4+ 8" width	
Print method	Thermal transfer	●	●	●	●	●	●	●	●	●	●
	Direct thermal	○	–	●	●	○	–	●	●	●	●
Print resolution	dpi	300	600	203	300	300	600	203	300	300	300
Print speed	mm/s max.	250	150	300	300	300	150	250	250	150	150
Print width	mm max.	56.9	54.1	104	108.4	105.7	105.7	168	162.6	216	216
Print length	mm max.	12,000	3,000	13,500	6,000	6,000	1,500	9,000	4,000	3,000	3,000
Initial print	Distance to locating edge	mm	2	2.8	1.2	2	2	0.5	3.2	2	2
<b>UHF-RFID</b>											
UHF-RFID Modul		–		□		□		□		□	□
<b>Material</b>											
Paper, cardboard, synthetics PET, PE, PP, PI, PVC, PU, acrylate, Tyvec		●				●		●		●	●
RFID labels according to separate specification		–		●		●		○		○	○
Shrink tube	ready for use	–				○		–		–	–
	continuous, pressed	○				○		–		–	–
Textile tape		○				○		–		–	–
Finishing	Roll, fanfold	●				●		●		●	●
	Roll diameter	mm max.				205					
	Core diameter	mm				38.1 - 76					
	Winding					outside or inside					
Label	Width	mm	4 - 63			20 - 116		46 - 176		46 - 220	
	Height no label backfeed <sup>2)</sup>	mm at least	4			4		6		25	
	label backfeed	mm at least	4			6		12		25	
	label backfeed, peel-off	mm at least	6			6		12		25	
Thickness	mm				0.03 - 0.6				0.03 - 0.6	0.05 - 0.6	
Liner	Width	mm	24 - 67			24 - 120		50 - 180		50 - 235	
	Thickness	mm				0.03 - 0.16					
Continuous	Width	mm	24 - 67			24 - 120		50 - 180		50 - 235	
	Thickness	mm	0.03 - 0.5			0.03 - 0.5				0.03 - 0.5	
Shrink tube	Weight (cardboard)	g/m <sup>2</sup> max.	300			300		300		300	
	Width ready for use	mm max.	–			120		–		–	
	continuous, pressed	mm	24 - 67			24 - 85		–		–	
Ribbon	Thickness	mm max.	1.1			1.1		–		–	
	Color layer					outside or inside					
	Roll diameter	mm max.				80					
	Core diameter	mm				25.4					
Internal rewinder provided on peel-off units	Length	m max.				600				360	
	Width	mm	25 - 67			25 - 114		50 - 170		220	
Outside diameter	mm max.					142					
Core diameter	mm					40					
Winding						outside					
<b>Printer dimensions, weights</b>											
Width x Height x Depth	mm	200 x 288 x 460		252 x 288 x 460		312 x 288 x 460		352 x 288 x 460			
Weight	kg	9		10		14		15			
<b>Label sensors, position indicators</b>											
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	to locating edge	aligned left	5 - 26			5 - 60		5 - 60		5 - 60	
Material passage	mm max.	2 (5 are an option)									
<b>Interfaces</b>											
RS232-C	1,200 to 230,400 baud / 8 bit	■									
USB 2.0 Hi-Speed device for plugging a PC		■									
Ethernet 10/100 Mbit/s IPv4 and IPv6		LPD, RawIP-Printing, SOAP-Webservice, OPC UA, WebDAV, DHCP, HTTP/HTTPS, FTP/FTPS, TIME, NTP, Zeroconf, SNMP, 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 providing 8 inputs and 8 outputs		□									
<b>Operating data</b>											
Voltage		100 - 240 VAC, 50.60 Hz, PFC									
Power consumption		<10 W in standby / 100 W in typical operation / max. 200 W									
Temperature / humidity	Operation	+5 - 40°C / 10 - 85 %, not condensing									
	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. → BIS, KC-Mark not provided for SQUIX 8.3									
<b>Control panel</b>											
Color LCD touchscreen	Diagonal	"	4.3								
	Resolution Width x Height	px	272 x 480								

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

2) If labels are torn off, cut, rewound.

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

soabbar - 4+ Series Specification

# Technical data

Label printers guiding materials in **centered** position

● typical ○ possible ■ standard □ option

Type		1.11, 1.12				1.14				
		4+ 4" width Hard Wearing Head		4+ 4" width		T4+ 4" width Hard Wearing Head		T4+ 4" width		
<b>Print method</b>	Thermal transfer	●	●	●	●	●	●	●	●	
	Direct thermal	●	●	○	–	●	○	–	–	
<b>Print resolution</b>	dpi	203	300	300	600	300	300	600	600	
<b>Print speed</b>	mm/s max.	300	300	300	150	300	300	150	150	
<b>Print width</b>	mm max.	104	108.4	105.7	105.7	108.4	105.7	105.7	105.7	
<b>Print length</b>	mm max.	13,500	6,000	6,000	1,500	6,000	6,000	1,500	1,500	
<b>Initial print</b>	Distance to locating edge	mm centered								
<b>UHF-RFID</b>		□	□	□	□	–	–	–	–	
<b>Material</b>										
<b>Paper, cardboard, synthetics PET, PE, PP, PI, PVC, PU, acrylate, Tyvec</b>			●	●			●			
<b>RFID labels according to separate specification</b>		●		●		–		–		
<b>Shrink tube</b>	ready for use		●				○			
	continuous, pressed		●				○			
<b>Textile tape</b>			○				●			
<b>Finishing</b>	Roll, fanfold		●				●			
	Roll diameter	mm max.	205							
	Core diameter	mm	38.1 - 76							
<b>Label</b>	Winding	outside or inside								
	Width	mm	4 - 110				4 - 110			
	Height no label backfeed	mm at least	3				4			
	label backfeed	mm at least	4				6			
	Label backfeed, peel-off	mm at least	6				–			
<b>Liner</b>	Thickness	mm	0.03 - 0.6							
	Width	mm	9 - 114				9 - 114			
	Thickness	mm	0.03 - 0.16							
<b>Continuous</b>	Width	mm	9 - 114				9 - 114			
	Thickness	mm	0.03 - 0.5				0.03 - 0.5			
	Weight (cardboard)	g/m <sup>2</sup> max.	300				300			
<b>Shrink tube</b>	Width ready for use	mm max.	114				114			
	continuous, pressed	mm	4 - 85				4 - 85			
	Thickness	mm max.	1.1				1.1			
<b>Hose</b>	continuous, round or oval, height	mm	5				–			
<b>Ribbon</b>	Color layer		outside or inside							
	Roll diameter	mm max.	80							
	Core diameter	mm	25.4							
	Length	m max.	600							
	Width	mm	25 - 114							
<b>Internal rewriter provider on peel-off units</b>										
<b>Outside diameter</b>	mm max.	142				–				
<b>Core diameter</b>	mm	40				–				
<b>Winding</b>		außen				–				
<b>Printer dimensions, weights</b>										
<b>Width x Height x Depth</b>	mm	252 x 288 x 460				252 x 288 x 460				
<b>Weight</b>	kg	10				10				
<b>Label sensors, position indicators</b>										
<b>Transmissive sensor</b>	detecting	labels, punch marks, materials ending, print marks on translucent materials								
<b>Reflective sensor from below or top</b>	detecting	labels, materials ending, print marks on non-translucent materials								
<b>Sensor distance to locating edge</b>	centered position	mm 0 - 55								
<b>Material passage</b>	mm max.	2 (5 are an option)								
<b>Interfaces</b>										
<b>RS232-C 1,200 to 230,400 baud / 8 bit</b>		■								
<b>USB 2.0 Hi-Speed device for plugging a PC</b>		■								
<b>Ethernet 10/100 Mbit/s IPv4 and IPv6</b>		LPD, RawIP printing, SOAP web service, OPC UA, WebDAV, DHCP, HTTP/HTTPS, FTP/FTPS, TIME, NTP, Zeroconf, SNMP, VNC								
<b>2 USB hosts on the control panel, 2 USB hosts on the back of a unit</b>		Service key, USB stick, USB WLAN stick, USB WLAN stick with a rod antenna, keyboard, barcode scanner, external control panel (on back only)								
<b>USB host, 24 VDC, for peripheral plugging</b>		■								
<b>Digital I/O interface providing 8 inputs and 8 outputs</b>		□								
<b>Operating data</b>										
<b>Voltage</b>		100 - 240 VAC, 50.60 Hz, PFC								
<b>Consumption of power</b>		<10 W in standby / 100 W in typical operation / max. 200 W								
<b>Temperature / humidity</b>	<b>Operation</b>	+5 - 40°C / 10 - 85 %, not condensing								
	<b>Stock</b>	0 - 60°C / 20 - 85 %, not condensing								
	<b>Transport</b>	–25 - 60°C / 20 - 85 %, not condensing								
<b>Approvals</b>		CE, UKCA, FCC Class A ICES-3, cULus, CB, CCC, BIS, BSMI, KC-Mark, Mexico Reg.								
<b>Control panel</b>										
<b>Color LCD touchscreen</b>	<b>Diagonal</b>	"				4.3				
<b>Resolution Width x Height</b>	px	272 x 480								

Soobar - 4+ Series Specification

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

2) If labels are torn off, cut, rewind.

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

# Technical data

■ standard □ option

Electronics		
Processor, 32 bit clock rate	MHz	800
RAM	MB	256
IFFS	MB	50
Port for plugging in 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		■
Setup options		
Print Labels	Region:	- Language
Ribbon		- Country
Tear off		- Keyboard
Peel off		- Time zone
Cut	Time	
Apply Interfaces	Display:	- Brightness
Error		- Power saving mode
		- Orientation
		Interpreter
Status bar		
Receive data	WLAN	
Record data stream	Ethernet	
Prior warning to a ribbon ending	USB slave	
SD memory card plugged	time	
USB stick plugged		
Controls		
Ribbon winding	Print head voltage	
Prior warning to a ribbon ending	Print head temperature	
Ribbon ending	Print head open	
Running out of material	Pinch roller open (peel-off unit, separator)	
	Peripheral error	
Test routines		
System diagnostics	upon startup, detection of print head included	
Information display, test printout, analysis	Status printout	Test grid
	Font list	Label profile
	List of units	List of events
	WLAN status	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 Cond. Bold Garuda HanWangHeiLight <b>Monospace 821</b> 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 Arabian
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 and 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, EO
2D codes, stacked codes	DataMatrix DataMatrix Rectangle Extension QR code Micro QR 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 Loftware 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	■ ■



After-sales 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

# soabar - 4+ Series Specification