

SQUIX UHF RFID label printers



SQUIX label printers integrating UHF RFID options enable highest industrial reliability in processes related to writing and printing RFID labels.

Three UHF RFID modules are provided as options, each optimized for a specific class of RFID labels: common RFID tags, on-metal RFID tags and mini RFID tags

A UHF RFID option qualifies already for a wide range of RFID labels. In addition, cab supports the development and qualification of customized solutions.

Comprehensive periphery and excellent programmability further qualify SQUIX UHF RFID label printers for solutions based on applications.

Next to RFID technology, cab supports the latest communication interfaces such as OPC UA and WebDAV, enabling a printer integrate to complex logistics systems.



For further information see
www.cab.de/en/squix-rfid

Technical data of label printers

● typical ○ possible ■ standard □ option

RFID label printer		Type	SQUIX 4.3 M		SQUIX 4 M	
Material guidance			centered			
Printing method	Thermal transfer		●	●	●	●
	Thermal direct		●	●	○	–
Printable resolution	dpi	203	300	300	600	
Print speed	up to mm/s	300	300	300	150	
Print width	up to mm	104	108.4	105.7	105.7	
Materials						
RFID labels	according to specifications as described separately, added by all materials printable by a SQUIX 4M printer					
	Roll diameter	up to mm	205			
	Core diameter	mm	38 - 76			
	Winding		outside or inside			
Liner	Width	up to mm	9 - 114			
Ribbon	Coating		outside or inside			
	Roll diameter	up to mm	90			
	Core diameter	mm	25			
	Length	up to m	600			
	Width	mm	25 - 114			
Printer dimensions and weight						
Width x Height x Depth		mm	252 x 288 x 520			
Weight		kg approx.	12			
Interfaces						
RS232C		1,200 to 230,400 bauds / 8 bits				
USB 2.0		Hi-speed device to connect a PC				
Ethernet		10/100 Mbit/s				
1 USB host on the operation panel	to plug a	service key or USB memory stick				
1 USB host on the operation panel	to plug a	USB WLAN stick 2.4 GHz 802.11b/g/n				
2 USB hosts on the back of the device	to plug a	keyboard, barcode scanner, USB Bluetooth adapter or USB WLAN stick				
Digital I/O interface providing		8 inputs and outputs				<input type="checkbox"/>
Operating data						
Voltage		100 - 240 VAC, 50/60 Hz, PFC				
Power consumption		< 10 W in standby / 100 W are typical				
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				
in preparation for CW 20 from CW 33		FCC Class A, ICES-3 cULus, CB				
		others may be provided on request				
Operation panel						
Colored LCD touch display		Screen diagonal	"	4.3		
		Resolution Width x Height px	272 x 480			
Controls						
Printer	Ribbon pre-warning ending winding Labels ending	Peripheral error Print head voltage temperature open Pinch roller open				
Fonts						
Provided internally	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				
To store	TrueType fonts					

Fonts	
Character sets	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
Bitmap fonts	Widths and heights 1 - 3 mm Zoom factors 2 to 10 Orientations 0°, 90°, 180°, 270°
Vector / TrueType fonts	Widths and heights 0.9 - 128 mm Continuous zoom Orientation 360° in steps of 1°
Font styles	bold, italic, underlined, outline, inverse - depending from the font type
Character spacing	variable or monospace
Graphics	
Elements	lines, arrows, rectangles, circles, ellipses - filled and gradient
Formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG
Barcodes	
Linear	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 routing code of Deutsche Post Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0
2D and stacked	DataMatrix DataMatrix Rect. Extension QR code Micro QR code GS1 QR code GS1 DataMatrix PDF 417 Micro PDF 417 UPS MaxiCode GS1 DataBar Aztec Codablock F Dotcode RSS 14 truncated, limited, stacked / omnidirectional All codes may vary in height, modular width and ratio. Orientations 0°, 90°, 180°, 270° Check digits, plain text printouts and start/stop codes are options depending from the type of code.
Software	
Label software	cablabel S3 Lite cablabel S3 Pro RFID edition in preparation cablabel S3 Viewer cablabel S3 Print
Stand-alone operation	
Programming	JScript printer language abc Basic Compiler
Integration	Database Connector
Administration	Printer control Configuration on the Intranet and Internet

cab makes use of free and Open Source software in its products. See information provided on www.cab.de/opensource



For further information see www.cab.de/en/squix

Technical data of UHF RFID modules

UHF RFID module on SQUIX 4	Dual UHF RFID module			High Sensitivity UHF RFID module
	Standard UHF RFID module	On-metal UHF RFID modul		
RFID				
Standard	UHF EPC Class 1 Gen 2			
Interface specification	ISO/IEC 18000-63			
Frequency scope	ETSI & FCC	ETSI & FCC	ETSI	FCC*
Input interface	JScript			
Features	Tag calibration, invalid labels be identified, proof printing, memory banks be locked			
Tags				
RFID tags	Standard	On-metal	High Sensitivity	
Material guidance	centered			
RFID print speed up to mm/s	100			
Materials				
Printable	see SQUIX 4M			
Approved RFID labels / tags				
identitytag	Wet Inlay 53 x 53 mm			
	Antenna Smartrac FROG 3D			
	Tag IC Impinj Monza 4D			
identitytag	SmartLabel 100 x 150 mm			
	Antenna Smartrac DogBone			
	Tag IC Impinj Monza R6			
identitytag		Smart Label On-metal 54 x 25 mm		
	Tag IC	NXP UCODE 7XM		
Confidex	Automotive Carrier Pro M4QT 92 x 24 mm (3000446)			
	Tag IC Impinj Monza 4QT/4G			
Confidex	Casey MR6-P 92 x 24 mm (3002400)			
	Tag IC Impinj Monza R6-P			
Confidex	Automotive Kanban 80 x 208 mm (3001985)			
	Tag IC Impinj Monza 4E			
Avery Dennison	BJ 269 AD663U7XM WET WHITE 93 x 22 mm			BU117 AD151 G2iM WET WHITE 25 x 18 mm
	Antenna AD-663u7xm			
	Tag IC NXP UCODE 7xm			
Avery Dennison	BR800 AD665U8 WET WHITE 93 x 22 mm			
	Antenna AD-665u8			
	Tag IC NXP UCODE 8			
Omni-ID	IQ400 P			
	Antenna Alien ALN-9610			
	Tag IC Alien Higgs 3			
Omni-ID		IQ150 EU 54 x 12 mm		
	Tag IC	Impinj Monza R6		
Omni-ID		IQ150 US 54 x 12 mm		
	Tag IC	Impinj Monza R6-P		
Omni-ID		IQ600 EU 94 x 24 mm		
	Tag IC	Impinj Monza R6		

* on request