

Products need labeling
UHF RFID label printers



SQUIX
Made in Germany

Kreski

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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
Codes	
1D 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 codes	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 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			BU117 AD151 G2iM WET WHITE 25 x 18 mm
	Antenna WET WHITE 93 x 22 mm AD-663u7xm			
	Tag IC NXP UCODE 7xm			
Avery Dennison	BR800 AD665U8			
	Antenna WET WHITE 93 x 22 mm 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

RFID labels

SQUIX UHF RFID label printers have been tested and approved for a consistently growing range of RFID labels. Find examples below. cab will provide as well information about further RFID labels.

If any required label cannot be found here, we will gladly review proposals or find suitable solutions, along with you, our label development department and qualified partners.



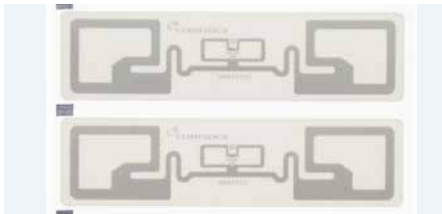
identitytag
Wet Inlay 53 x 53 mm
Smartrac FROG 3D



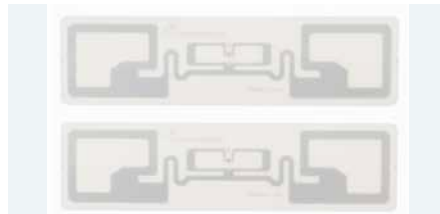
identitytag
SmartLabel 100 x 150 mm
Smartrac DogBone



identitytag
Smart Label On-metal 54 x 25 mm



Confidex
Automotive Carrier Pro
M4QT 92 x 24 mm (3000446)



Confidex
Casey MR6-P 92 x 24 mm (3002400)



Confidex
Automotive Kanban 80 x 208 mm
(3001985)



Avery Dennison
BJ 269 AD663U7XM
WET WHITE 93 x 22 mm AD-663u7xm



Avery Dennison
BR800 AD665U8
WET WHITE 93 x 22 mm AD-665u8



Avery Dennison
BU117 AD151 62IM
WET WHITE 25 x 18 mm AD-151iM



Omni-ID
IQ400 P
Alien ALN-9610



Omni-ID
IQ150 EU 54 x 12 mm



Omni-ID
IQ150 US 54 x 12 mm



Omni-ID
IQ600 EU 94 x 24 mm

RFID-related functions

RFID UHF antennas

Optimized antennas are provided for any application:

1. **Standard** antenna to cover a wide range of common RFID tags
2. **On-Metal** antenna for on-metal tags
3. **High Sensitivity** antenna for tags requiring special signal demands

RFID features

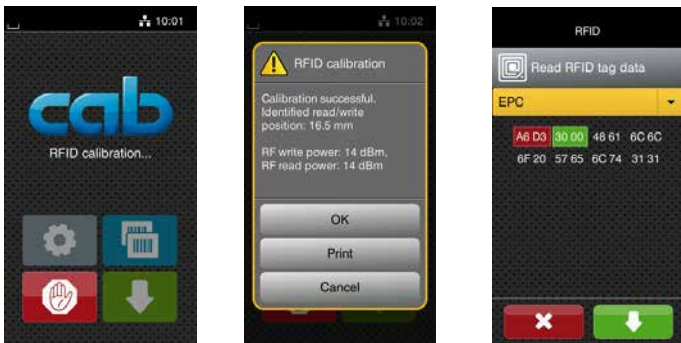
Tag calibration

Read/write positions and performances, at which the RFID printer can write and read a tag best possible, can be determined for many common RFID tags.

Characteristic curves for calibration may be printed as well as label profiles.

On-the-fly reading of tag contents

Contents such as TID, EPC, User Memory can be read **on the fly** on the RFID printer and displayed by the GUI.



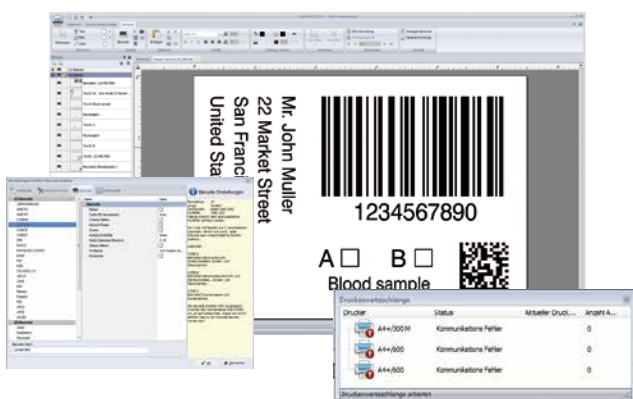
Further features are

statistics, number of allowed write/read errors be specified, invalid labels be identified (void label)

cablabel S3 software

Design, print, administrate - RFID edition in preparation

cablabel S3 opens up the full potential of cab devices. Creating a label is the first step. cablabel S3 adapts to requirements easily using a modular design. Plug-ins like the JScript Viewer support native JScript programming, as well as other features. The designer user interface and the JScript code synchronize in real time. The Database Connector and other special features can be integrated, so are barcode verifiers.



Printer control

Programming

JScript commands

- assign RFID resources (e.g. tag type, number of retries, write / read positions ...)
- write and read TID, EPC and User Memory
- type password
- generate GS1/JAIF URN Notation EPC
- lock memory bank

ABC abc Basic Compiler

An integral part of the firmware, it adds to JScript in terms of programming a printer before data are edited for processing. For example, external printer languages can be replaced without intervening in the print job in process. Data may be transferred also from other systems, such as scales, barcode scanners or PLC.

Printer administration

Configuration on the Intranet and Internet

cab printers integrate a HTTP and FTP server. A printer can be controlled and configured, firmware updated and memory cards managed using a standard web browser or FTP client. Administrators and operators are notified of states, warnings and errors via email or datagrams, based on a SNMP/SNMP client. Time and date are synchronized by a time server.

Database Connector

Printers connected to a network are enabled to access data directly from a central ODBC / OLEDB database and transfer it to a label. While labels are printed, data can be rewritten to the database.

Stand-alone printing

A printer can select and print labels even when the system is disconnected from a host.



Labels are designed using software such as cablabel S3 or a text editor on a PC. Label formats, texts, graphics and data taken from a database are transferred to a memory card, a USB memory stick or the internal IFFS memory.

Only variable data are sent to the printer using a keyboard, a barcode scanner, scale or another host system and/or are recalled from a host by the Database Connector and printed.



Delivery program

Label printers

Pos.	Part no.	Designation
1.7		5977018.xxx Label printer SQUIX 4.3/200M
	5977019.xxx Label printer SQUIX 4.3/300M	
	5977010.xxx Label printer SQUIX 4/300M	
	5977011.xxx Label printer SQUIX 4/600M	
1.8		5977022.xxx Label printer SQUIX 4.3/200MP
	5977023.xxx Label printer SQUIX 4.3/300MP	
	5977007.xxx Label printer SQUIX 4/300MP	
	5977008.xxx Label printer SQUIX 4/600MP	

xxx = with option UHF-RFID


Options UHF-RFID

Pos.	Part no.	Designation
6.1	xxxxxxx.406	Standard UHF RFID module
	xxxxxxx.407	On-metal UHF RFID module
	xxxxxxx.408	High Sensitivity UHF RFID module
	xxxxxxx.409	Dual UHF RFID module (Standard and On-metal)

xxxxxxx = Label printer from Pos. 1.7/1.8

Wear parts

Print heads for modules Standard/HS/Dual

Pos.	Part no.	Designation
	5977382.001	Print head 4.3/200
	5977383.001	Print head 4.3/300
	5977444.001	Print head 4/300
	5977380.001	Print head 4/600

Print head for module On-Metal incl. RFID antenna

Pos.	Part no.	Designation
	5987177.001	Print head 4.3/200
	5987178.001	Print head 4.3/300
	5987179.001	Print head 4/300
	5987180.001	Print head 4/600



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

Scope of delivery

Label printer
Power cable Type E+F, 1.8 m
Connecting USB cable, 1.8 m
Instructions DE/EN

Available online

Instructions in 30 languages
Configuration manuals DE/EN/FR
Service manuals DE/EN
Spare parts lists DE/EN
Programming manual EN
Windows printer drivers WHQL-certified for
Windows Vista Server 2008
Windows 7 Server 2008 R2
Windows 8 Server 2012
Windows 8.1 Server 2012 R2
Windows 10 Server 2016
Server 2019

Apple Mac OS X printer drivers DE/EN/FR
Linux printer drivers DE/EN/FR
cablabel S3 Lite software
cablabel S3 Viewer
Database Connector

<https://setup.cab.de/en>

Label software

Pos.	Part no.	Designation
11.7	Bundle	cablabel S3 Lite (download on cab.de/en)
	5588001	cablabel S3 Pro 1 WS
	5588100	cablabel S3 Pro 5 WS
	5588101	cablabel S3 Pro 10 WS
	5588150	cablabel S3 Pro 1 additional licence
	5588151	cablabel S3 Pro 4 additional licences
	5588152	cablabel S3 Pro 9 additional licences
	5588002	cablabel S3 Print 1 WS
	5588105	cablabel S3 Print 5 WS
	5588106	cablabel S3 Print 10 WS
11.10	5588155	cablabel S3 Print 1 additional licence
	5588156	cablabel S3 Print 4 additional licences
	5588157	cablabel S3 Print 9 additional licences
	in preparation	cablabel S3 Print Server
	9009950	Programming manual EN, printed copy

User languages

Language	Menu	Windows drivers	cablabel S3	Instructions
Arabic	X	-	-	-
Bulgarian	X	-	X	X
Chinese, traditional	X	X	X	X
Chinese, simplified	X	X	X	X
Danish	X	X	-	X
German	X	X	X	X
English	X	X	X	X
Estonian	X	-	-	X
Finnish	X	X	-	X
French	X	X	X	X
Greek	X	-	-	X
Italian	X	X	X	X
Korean	-	X	X	X
Latvian	X	-	-	X
Lithuanian	X	-	-	X
Macedonian	X	-	-	-
Dutch	X	X	-	X
Norwegian	X	X	-	X
Persian	X	-	-	-
Polish	X	X	X	X
Portuguese	X	X	-	X
Romanian	X	-	-	X
Russian	X	X	X	X
Swedish	X	X	-	X
Serbian	X	-	-	-
Slovak	X	X	-	X
Slowenian	X	X	-	X
Spanish	X	X	X	X
Thai	x	X	-	X
Czech	X	X	X	X
Turkish	X	X	-	X
Hungarian	X	X	-	X

Scopes of delivery, design and technical specifications correspond to the date of the printing. Subject to change. The data provided in the catalog do not represent any warranty or guarantee.

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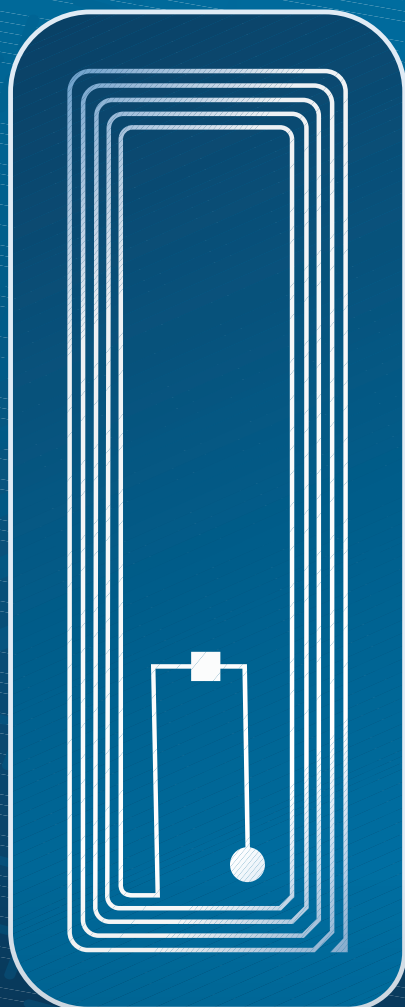
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