



UHF RFID label printers



PX Q | HERMES Q | XD Q | SQUIX

SQUIX UHF RFID label printers

Basic and peel-off units guiding materials aligned to the left or in centered position



See further information on
www.cab.de/en/squix-rfid

SQUIX

SQUIX 4 M label printer providing
an integral UHF RFID module

cab label printers providing integral UHF RFID options offer highest industrial reliability in the writing and printing of RFID labels.

There are three UHF RFID modules to select from. Each has been optimized for a specific class of RFID labels: standard RFID tags, on metal RFID tags and mini RFID tags

UHF RFID options already qualify for a wide range of RFID labels. In addition, cab assists in customer-specific solutions.

Extensive peripherals and the excellent programmability of cab label printers with UHF RFID option enable practical solutions.

cab next to RFID technology also supports the latest communication interfaces such as OPC UA and WebDAV for integrating a printer to complex logistics systems.

● typical ○ possible □ option

RFID label printer	Type	1.3, 1.4		1.5, 1.6		1.7, 1.8		1.11, 1.12				1.14			
		SQUIX 4.3	SQUIX 4	SQUIX 6.3	SQUIX 8.3	SQUIX 4.3 M	SQUIX 4 M	SQUIX 4.3 MT	SQUIX 4 MT						
Guidance of materials		aligned to the left						centered							
Print method	Thermal transfer	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Direct thermal	●	●	○	-	●	●	●	●	●	○	-	●	○	-
Print resolution	dpi	203	300	300	600	203	300	300	203	300	300	600	300	300	600
Print speed	mm/s max.	300	300	300	150	250	250	150	300	300	300	150	300	300	150
Print width	mm max.	104	108.4	105.7	105.7	168	162.6	216	104	108.4	105.7	105.7	108.4	105.7	105.7
UHF RFID modules															
UHF RFID OM 4 module		□	□	□	□	-	-	-	□	□	□	□	-	-	-
UHF RFID RS 4 module		□	□	□	□	-	-	-	□	□	□	□	□	□	□
UHF RFID HS 4 module		□	□	□	□	-	-	-	□	□	□	□	□	□	□
UHF RFID OM / RS 4 module		□	□	□	□	-	-	-	□	□	□	□	□	□	□
UHF RFID RS 6 module		-	-	-	-	□	□	-	-	-	-	-	-	-	-
UHF RFID HS 6 module		-	-	-	-	□	□	-	-	-	-	-	-	-	-
UHF RFID RS 8 module		-	-	-	-	-	-	□	-	-	-	-	-	-	-

Further label printers providing integral UHF RFID modules



HERMES Q

Designed for printing labels and applying them automatically in production lines

Read / write antennas are assembled directly to a print head or a feeding unit. Invalid labels can be ejected by the applicator 4214.

deliverable from Q2/2024



www.cab.de/en/hermesq

Label printer		HERMES Q4.3	HERMES Q4	HERMES Q6.3		
Print resolution	dpi	200	300	300	600	200 300
Print speed	mm/s max.	300	300	300	150	250 250
Print width	mm max.	104	108.4	105.7	105.7	168 162.6
Label roll outside diameter	mm	205 / 305				
Width of a label	mm max.	114			174	
Direction to which labels are dispensed		L = to the left, R = to the right				
UHF RFID modules						
UHF RFID OM module		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- -
UHF RFID RS module		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



PX Q

Print modules designed for labeling plants

Read / write antennas are preferably assembled directly to a print head.

in planning



www.cab.de/en/pxq

Print module		PX Q4.3	PX Q4	PX Q6.3		
Print resolution	dpi	200	300	300	600	200 300
Print speed	mm/s max.	300	300	300	150	250 250
Print width	mm max.	104	108.4	105.7	105.7	168 162.6
Width of a label	mm max.	116	116	116	116	174 174
Direction to which labels are dispensed		L = to the left, R = to the right				
UHF RFID module						
UHF RFID OM module		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- -



XD Q

Label printer designed for printing on both sides of continuous materials

Modules are assembled inside a chassis, antennas directly to a print head. Data of RFID tags are read or written just before the printing of a label. In the event of errors, labels are indicated invalid.

deliverable from Q3/2024



www.cab.de/en/xdq

Label printer		XD Q4/300
Print resolution	dpi	300
Print speed	mm/s max.	150
Print width	mm max.	105.7
Width of a material	mm max.	114
UHF RFID module		
UHF RFID OM module		<input type="checkbox"/>



Access technical data, accessories, peripherals and software by scanning the respective QR code or browsing the respective URL of an item.

UHF RFID modules with read / write antennas

Modules are assembled inside a chassis, antennas directly to a print head or a feeding unit. Data of RFID tags are read or written just before the printing of a label. In the event of errors, labels are indicated invalid.

Read / write antennas

On a print head

1. **OM – On Metal** preferred if labels are applied onto metal surfaces

On a feeding unit

2. **RS – Regular Sensitivity** is a standard with all common RFID labels
3. **HS – High Sensitivity** if RFID labels have specific radiation characteristics

On a print head and on a feeding unit

4. **OM and RS** – Each antenna can read / write labels one by one.

RFID features

RFID tag calibration

Optimum read / write performance is identified for RFID tags. Characteristic curves can be printed using the status feature.

Tag data read on-the-fly

Memories (TID, EPC, User Memory) can be read **on-the-fly** on a printer and displayed by the GUI.

Technical data

UHF RFID module:

RFID standard: UHF EPC Class 1 Gen 2
Interface specification: ISO/IEC 18000-63

Read antenna frequencies:

ETSI & FCC

Further features:

Statistics
Maximum number of read / write errors
Label invalid (Void Label)
Continuous print images
Memory banks blocked

Programming:

JScript
ZPL2

Label software:

cablabel S3

in preparation:

Codesoft
Loftware Spectrum
Nicelabel
Bartender



Antenna samples

identytag

Wet Inlay
53 mm x 53 mm



Tag antenna: Smartrac FROG 3D

Tag IC: Impinj Monza 4D

Read / write antenna: cab RS

identytag

SmartLabel
100 mm x 150 mm



Tag antenna: Smartrac DogBone

Tag IC: Impinj Monza R6

Read / write antenna: cab RS

identytag

Smart Label
54 mm x 25 mm



Tag antenna: On Metal

Tag IC: NXP UCODE 7XM

Read / write antenna: cab OM

Confidex

Automotive Carrier Pro
92 mm x 24 mm



Tag antenna: M4QT

Tag IC: Impinj Monza 4QT/4G

Read / write antenna: cab RS

Confidex

Casey
92 mm x 24 mm



Tag antenna: MR6-P

Tag IC: Impinj Monza R6-P

Read / write antenna: cab RS

Confidex

Automotive Kanban
80 mm x 208 mm



Tag antenna: M4E

Tag IC: Impinj Monza 4E

Read / write antenna: cab RS

Avery Dennison

BJ 269 WET WHITE
93 mm x 22 mm



Tag antenna: AD-663U7xm

Tag IC: NXP UCODE 7xm

Read / write antenna: cab RS

Avery Dennison

BR800 WET WHITE
93 mm x 22 mm



Tag antenna: AD-665u8

Tag IC: NXP UCODE 8

Read / write antenna: cab RS

Avery Dennison

BU117 WET WHITE
25 mm x 18 mm



Tag antenna: AD-151iM

Tag IC: NXP G2iM

Read / write antenna: cab HS

Omni-ID

IQ400 P
94 mm x 24 mm



Tag antenna: Alien ALN-9610

Tag IC: Alien Higgs 3

Read / write antenna: cab RS

Omni-ID

IQ150 EU
54 mm x 12 mm



Tag IC: Impinj Monza R6

Read / write antenna: cab OM

Omni-ID

IQ600 EU
94 mm x 24 mm



Tag IC: Impinj Monza R6

Read / write antenna: cab OM