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NEWPROTECH
PROFESSIONAL TECHNOLOGY
Gli specialisti della stampa a trasferimento termico

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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

		1.3, 1.4				1.5, 1.6		1.7, 1.8	1.11, 1.12			
RFID label printer	**Type**	**SQUIX 4.3**		**SQUIX 4**		**SQUIX 6.3***		**SQUIX 8.3***	**SQUIX 4.3 M**		**SQUIX 4 M**	
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
Print speed	mm/s max.	300	300	300	150	250	250	150	300	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
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		–	–	–	–	–	–	☐	–	–	–	–
UHF RFID HS 8 module		–	–	–	–	–	–	☐	–	–	–	–

*in planning

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 feeding unit. Invalid labels can be ejected by the applicator 4214.

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 RS module		☐	☐	☐	☐	☐	☐
UHF RFID HS module		☐	☐	☐	☐	☐	☐

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					

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.

provided upon request

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		☐

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

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