



## PX Series Print Module

Made in Germany

# PX print modules

## Our goals are:

Perfect function, high reliability, easy to handle operation and less maintenance downtime.

The PX print module is designed especially for the fully automatic print and apply operation in the industrial use. It can be integrated in each orientation and used for complex labeling applications.



A solid cast aluminum design is base for the assembly of all components of the printing mechanics. A food safe coating and stainless steel covers make the PX print module perfect with outstanding features. It is bolt compatible with competitive print modules.

## The Universal

The industrial module for precise printing.

1.1	Print module	PX4			PX 4.3*	
	Print resolution dpi	203	300	600	203	300
	Print width up to mm	104	105,6	105,6	104	108,4
	Print speed up to mm/s	300	250	100	200	150

\*4.3 preferably for thermal direct printing.

## The Wide

Focused on Odette and UCC labels.

1.2	Print module	PX6	
	Print resolution dpi	203	300
	Print width up to mm	168	162,6
	Print speed up to mm/s	200	200

## Label peeling direction

Print module PX „L“



left hand version

Print module PX „R“



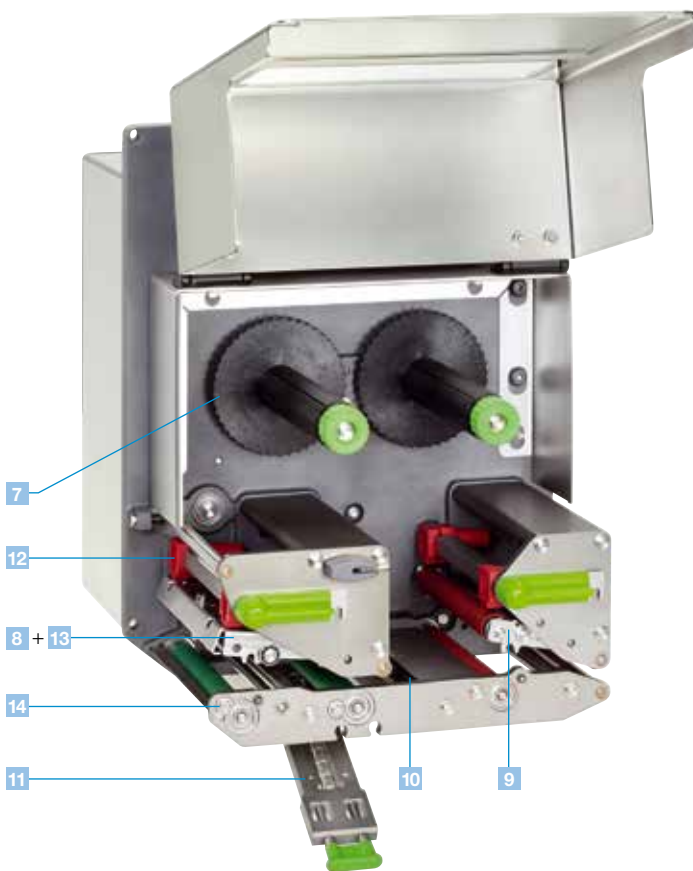
right hand version

All PX print modules are available in right and left hand versions and different resolutions.

# Technical details



- 1 Big graphic display**  
White backlight for optimum readability.
- 2 Navigator pad**  
With illuminated lettering for interactive menu navigation.
- 3 CF memory card**  
Slot for CF memory card for storage of label formats, fonts, texts, graphics, programs or databases.
- 4 USB slot**  
Additional USB slot for service keys, keyboard, scanner or USB memory.
- 5 Power switch**  
Attached to the front for easier handling.
- 6 Solid metal cover**  
Made of die-cast aluminum with antibacterial coating. All casings are made of stainless steel.
- 7 Ribbon rewinder and unwinder**  
The three-part tightening axles enable fast and easy ribbon exchange. Narrow ribbons can be fixed in any position.
- 8 Ribbon saver**  
Used for labels that are only to be partially printed. During label feed the printhead is lifted in the blank area and the ribbon is stopped.
- 9 Back-feed**  
Once a label has been dispensed, the next one can be fed back behind the print line to ensure it can be printed right to the edge and to prevent the liner from leaking adhesive during a longer pause. With very sensitive materials and to avoid ribbon folds, the printhead can be raised during this process.
- 10 Label sensor**  
The gap or reflective sensor ensures the label is positioned precisely and identifies the end of the material – independent of gaps.
- 11 Simple material replacement**  
The label material is inserted edgewise up to the end position. The printhead and pressure roller are locked with locking levers.
- 12 Adjustment of the print layout**  
The pressure can be adjusted easily by moving the plungers.
- 13 Fast printhead exchange**  
The printhead can be exchanged and adjusted easily using the Allen key, which is ready to hand at the machine.
- 14 Removing the print roller**  
The print roller can be easily removed for cleaning or replacement.



# Technical data

■ Standard □ Option ○ Authorized distribution by resellers

Print module		PX4			PX4.3 <sup>2)</sup>		PX6	
<b>Printhead</b>								
Printing method		Thermal transfer / Thermal direct						
Print resolution dpi		203	300	600	203	300	203	300
Print speed up to mm / s		300	250	100	200	150	200	200
Print width up to mm		104	105,6	105,6	104	108,4	168	162,6
<b>Material</b>								
Labels, continuous rolls or fan-folded		Paper, cardboard, textiles, plastics such as PET, PE, PP, PI, PVC, PU, Acrylat						
Thickness mm / weight g/m <sup>2</sup>		0,055 - 0,35 / 60 - 160						
Label width <sup>1)</sup> mm		10 - 116					50 - 174	
Width of carrier <sup>1)</sup> mm		25 - 120					50 - 178	
Label height <sup>1)</sup>	min. mm without back-feed	6	6	6	6	6	12	12
	min. mm when dispensing <sup>1)</sup>	12	12	12	12	12	25	25
	max. mm	5000	4000	1000	5000	4000	4000	3000
<b>Ribbon</b>								
Ink		Outside or inside						
Roll diameter up to mm		86						
Core diameter mm		25						
Ribbon length variable up to m		600						
Width <sup>3)</sup> up to mm		114						165
Ribbon saver		□						
<b>Label sensor</b>								
Gap sensor		For leading edge of the label or punching marks and end of material						
Reflective sensor from the bottom		For printing marks						
Distance to locating edge mm		4 - 60						
<b>Electronics</b>								
Processor high speed 32 Bit ColdFire / speed MHz		266						
RAM MB		64						
Memory IFFS MB Flash		8						
Slot for CompactFlash Type I		■						
Slot for wireless LAN card		■						
Real-time clock, printout of date and time		■						
<b>Interfaces</b>								
Centronics bidirectional acc. to IEEE 1284		□						
RS232 C 1,200 to 230,400 Baud / 8 Bit		■						
USB 2.0 high speed slave for PC connection		■						
Ethernet 10 / 100 Base T, LPD, RawIP printing, ftp printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP		■						
RS422, RS485 1.200 up to 230.400 Baud / 8 Bit		□						
WLAN card 802.11b / g WEP / WPA PSK (TKIP)		□						
Wireless Bridge 802.11b		□						
2x USB master for external operation panel, keyboard, scanner or service key, USB flash drive		■						
Digital I/O interface (cab other OEM version)		■						
<b>Operating data</b>								
Power supply		100 - 240 V ~ 50 / 60 Hz, PFC						
Energy consumption		max. 250 W						
Operating temperature / Humidity		Operation: + 5 - 40°C / 10 - 85% not condensing						
		Stock: + 0 - 60°C / 20 - 80% not condensing						
		Transport: - 25 - 60°C / 20 - 80% not condensing						
Approvals		CE, FCC class A, CB, CCC, UL						
<b>Operation panel</b>								
Buttons / LED display		Pause, Feed, Cancel, Menu, Enter, 4 x Cursor						
LCD graphic display		Text 4 lines, ca. 20 characters per line						
Width x Height mm		60 x 40						
<b>Settings</b>								
		Digital or analog clock	Print parameters	Interfaces	Time			
		System settings	24 language settings	Security	Date			
<b>Monitoring</b>								
Stop printing if:		End of ribbon End of label Printhead open						
On the display		Data reception WLAN field intensity Ethernet status	Used memory Temperature of printhead Access to memory card	Clock Date sheet abc Debug	Input buffer Remaining quantity of ribbon			

<sup>1)</sup> Limitations may apply to small labels, thin materials or strong adhesives. Critical materials or applications must be tested and approved.

<sup>2)</sup> Preferred for thermal transfer printing.

<sup>3)</sup> The ribbon should be roughly the same width as the label in order to avoid folding.

# Technical data

Test routines	
System diagnosis	When switched on, incl. printhead testing
Short status, status print	Font list, device list, WLAN status, profile of label, test grid, monitor mode, PPP status
Status reports	Extensive status printout with information about setting, e.g. print length counter, runtime counter etc. Request of machine status via software command. Detailed status messages on the display, e.g. network error – no link, barcode error, etc..
Fonts	
Font types	5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Thai and Chinese (simplified Chinese) available as options.
Character sets	Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, KOI8-R. All West and East European Latin, Cyrillic, Greek, Hebrew and Arabic characters are supported. Thai and Chinese available as options.
Bitmap fonts	Size of width and height 1 – 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°
Vector / TrueType fonts	Size of width and height 0.9 – 128 mm Variable zoom, Orientation 360° in steps of 1°
Font formats	Bold, italic, underlined, outline, negative, vertical, depending on character fonts
Font width	Variable
Graphics	
Graphic elements	Line, arrow, box, circle, ellipse, filled and filled with fading
Grafikformate	PCX, IMG, BMP, TIF, MAC, GIF, PNG

Barcodes			
Linear barcodes	Code 39, Code 93	Interleaved 2 / 5	
	Code 39 Full ASCII Code 128 A, B, C EAN 8, 13 EAN / UCC 128 EAN / UPC Appendix 2 EAN / UPC Appendix 5 FIM HIBC	Ident- u. Leitcode der Deutschen Post AG Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0	
2D codes	Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar		
	All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and start/stop code, depending on code type.		
Software			
Programming	J-Script direct programming abc-Basic Compiler Database Connector SAP Replace method	■ ■ ■ ■	
System diagnosis / administration	Printer monitoring with Intra- and Internet with web interface Network Manager	■ ■	
Label software	cablabel® S3 Lite cablabel® S3 Viewer cablabel® S3 Pro	■ ■ □	
Windows driver 32 / 64 bit certified for	Windows XP Windows Vista Windows 7 Windows 8 Windows 8.1	Server 2003 Server 2008 Server 2008 R2 Server 2012 Server 2012 R2	■
Mac driver	OS X printer driver from version 10.6	■	
Linux driver	CUPS-based from version 1.2	■	
Stand-alone-operation		■	

# Interfaces















- 1 RS232C interface
- 2 USB 2.0 slave interface
- 3 Ethernet 10/100 Base T interface with TCP/IP
- 4 Slot for wireless LAN card
- 5 Two USB master interfaces for connecting an external operation panel, keyboard, scanner or service key
- 6 Slot for CompactFlash Type I memory card

- 7 Digital I/O interface  
25-pin SUB D socket  
Each of the 24V inputs and outputs are electrically isolated
 

<b>Inputs</b> Label feed Repeat print run Start printing Pause Label dispensed Cancel re-set with memory Cancel re-set without memory	<b>Outputs</b> Warning if end of ribbon Warning if end of label Paper feed ON Print start Error end of ribbon Error end of label Print data available Operating status Label in dispensing position Error printer
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- 8 OEM – digital I/O interface  
15-pin SUB D socket  
Each of the 5V inputs and outputs are electrically isolated
 

<b>Inputs</b> Label feed Repeat print run Start printing Cancel reset without memory	<b>Outputs</b> Warning if end of ribbon Paper feed ON Error end of ribbon Error end of label Print data available Label in dispensing position Error printer
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# Accessories for all models

Extras	
2.1	 <p><b>External panel</b> Connected via USB interface. Both panels provide the same functionality.</p>
2.2	 <p><b>Interface cover</b> Protects the interfaces against humidity and contamination.</p>
2.3	 <p><b>25-pin SUB D interface connector</b> With screw clamps for the cable connection.</p>
2.4	 <p><b>15-pin SUB D interface connector</b> With screw clamps for the cable connection.</p>
2.5	 <p><b>Memory card</b> CompactFlash Type I</p>
2.6	 <p><b>Standard keyboard USB</b> German Version</p>
Interfaces	
3.1	 <p><b>Centronics interface</b> bidirektional nach IEEE 1284</p>
3.2	 <p><b>Interface RS422/RS485</b> 1.200 up to 230.400 Baud/8 Bit</p>
3.3	 <p><b>Label selection box – I/O box</b> From a higher-level control, like a PLC, up to 16 different labels can be selected from the memory card. The I/O box enables via abc programming to realize easy programming of the PLC with the 4 in- and outputs.</p>
3.4	 <p><b>WLAN card 802.11 b/g</b></p>
Connecting cable	
4.1	 <p><b>Connecting cable RS232 C</b> 9/9 pin, length 3 m</p>
4.2	 <p><b>Patch cable KAT 5e</b>, 3 m grau</p>



Device functionality and compliance with CE standards are only warranted by using the accessories provided or recommended by cab.

# Label software cablabel® S3

11.9



In cablabel® S3 cab concentrates label design, print control and monitoring of all cab marking systems and synchronizes the development of devices and software.

## Highlights

cablabel® S3 opens full potential of cab devices like no other available software does: the software provides JScript instruction set to the full extend. The Pro product imports already existing JScript files, so you can switch over to the new software without wasting time. With the new layer technology the user designs a label with the data for all established devices and resolutions. The intelligent print control evaluates onto which device and with which resolution the label has to be printed and sends adequate data. This reduces possible sources of error.

Simultaneously cablabel® S3 maximizes the integration database connections via Database Connector. After designing, the software provides all files that are stored within the printer for data base connections. And, if you want your marking system to print independently from a host system in the stand alone mode, cablabel® S3 supports this in the same way. Additionally, the software creates interfaces that are easy to handle for the connection to SAP or other devices like SPC, scales or bar code tester.

## Products

Companies structure label printing differently. For example, creation and production are executed by different employees. To adopt the software package to your company cab offers different products.

cablabel® S3 Lite is delivered free of costs with every cab printer and allows you to create and print labels.

With cost-saving cablabel® S3 Pro you create label designs for professional technical solutions.

cablabel® S3 Viewer shows the preview of a label in the Windows Explorer and is delivered free of costs with every cab-label® S3. The Viewer may support you for example in approval processes or supplier requirements.

cablabel® S3 Print is provided for users in production or warehousing. The user interface is simplified and makes only those functions available which are required for label printing. Other products like cablabel® S3 Pro Laser, Print Laser and Print Server are in preparation.

# Integration



No printer is isolated – in a productive environment it is connected to other equipment or networks for control and monitoring. cab offers various possibilities to integrate the printer into your environment.

## Control

Every cab printer can be directly coded with the simple programming language *JScript* and an extensive instruction set. The label software *cablabel® S3* supports optimally *JScript*, but a *JScript* program may also be created with any text editor.

As an integrated element of the firmware, the *abc Basic compiler* enables the printer to process data via BASIC programming before it is sent for print editing. That way, you replace external printer languages or integrate data from other systems, e.g. balance or a PLC.

**11.4** In the stand-alone mode with additional network connection, the *Database Connector* enables printers to access data directly from a central ODBC-, OLEDB compatible database and to print it as a label.

In cooperation with SAP\* cab developed the so-called *replace method* to control cab printers quickly and easily from SAPScript using SAP R/3. Using the *replace method* the host computer only sends the *JScript* variable, respectively changed data to the printer. As a Silver Level partner in SAP's Printer Vendor Program, cab has access to the SAP development area for optimum printer support in SAP environments.

\* SAP and all SAP logos are trademarks or registered trademarks of SAP SE in Germany and in several other countries.

**11.10** The *Programmer's guide* explains and describes commands for different printer models via direct programming with *JScript* and *abc* and additionally the connection of the printer to databases via *Database Connector*.

For the printer control via PC accredited drivers are available for established Windows operating systems and additionally CUPS-based drivers for Mac OS X and Linux. The drivers ensure optimal stability on your operating system.

## Monitoring

Using standard programs such as the web browser or FTP clients, the integrated HTTP and FTP server enables print monitoring, configuration, firmware updates and memory card administration. Status, warning and error messages are sent to administrators or users as e-mails or SNMP datagrams via SNMP and SMTP clients. A time server is used to synchronize time and date.

**11.6** The cab Network Manager enables the user to control a number of printers across a network simultaneously. It supports monitoring, configuration, firmware updates, memory card administration, file synchronization and PIN administration centrally.





## Stand-alone operation

### Printing without PC

Stand-alone operation is the ability to print labels even if the printer is not connected to the host system.

The label layout is designed with the label software cablabel S3 or direct programming via PC.

Label formats, fonts, font-, text- and graphics data as well as data base contents are saved on the USB stick or read on the internal data memory IFFS.

Only variable data to be printed is sent to the printer via keyboard or scanner.



## Easy maintenance

### Printhead 203 / 300 / 600 dpi







The printhead can be exchanged and adjusted easily using the Allen key, which is ready to hand at the machine.
















### Removing the print roller

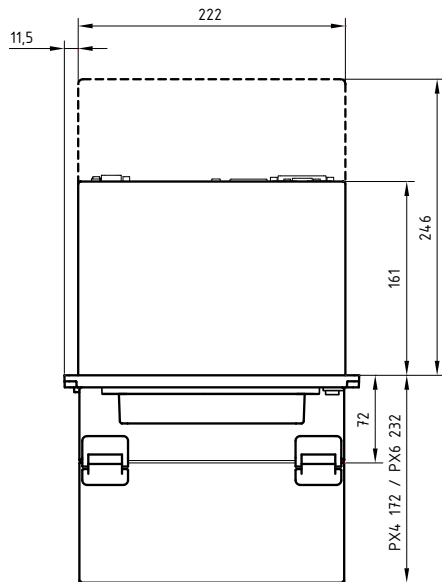
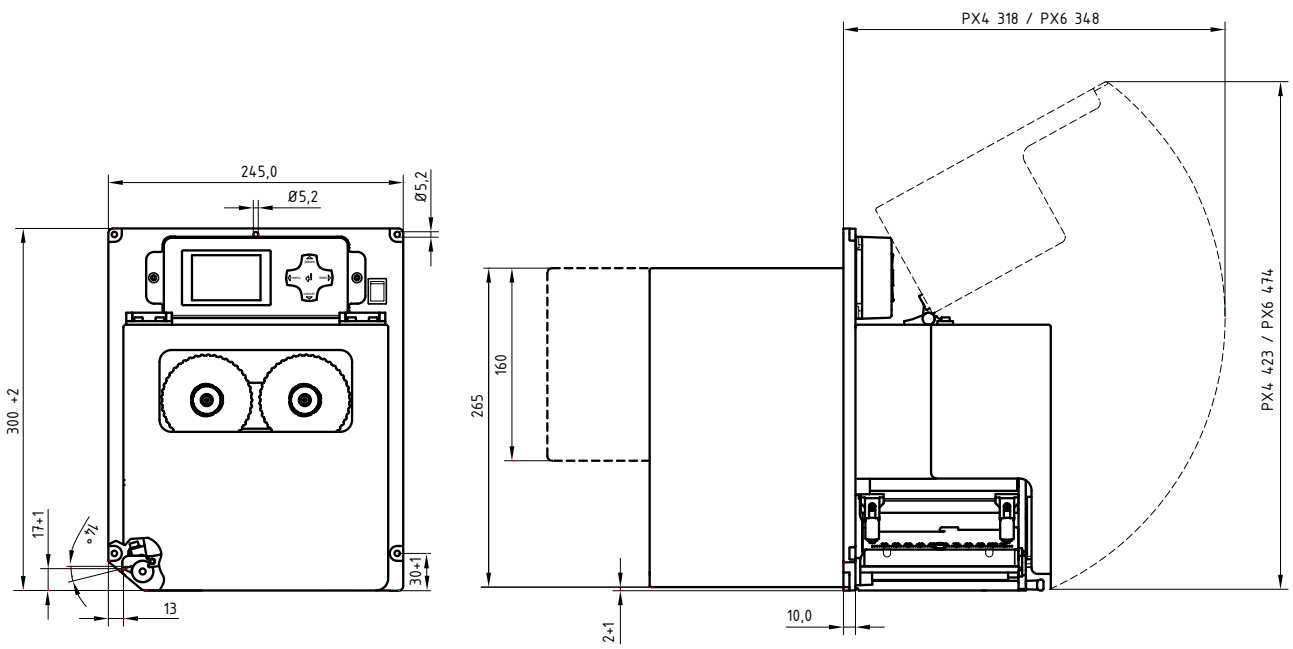
The print roller can be easily removed for cleaning or replacement.

# Delivery program for the PX print module

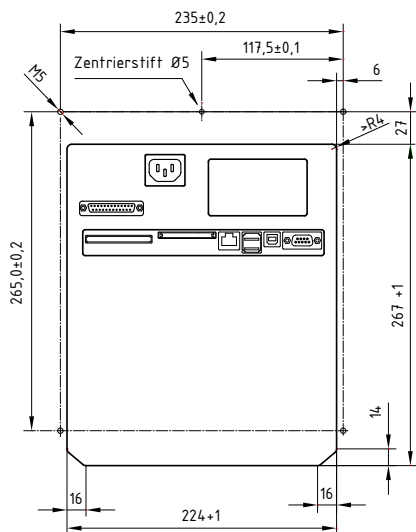
	Part no.	Hardware	dpi	
1.1		<b>5956102.xxx</b> <b>5956103.xxx</b> <b>5956106.xxx</b>	Print module PX4L / 200 Print module PX4L / 300 Print module PX4L / 600	
		<b>5956142.xxx</b> <b>5956143.xxx</b>	Print module PX4.3L / 200 Print module PX4.3L / 300	
		<b>5956112.xxx</b> <b>5956113.xxx</b> <b>5956116.xxx</b>	Print module PX4R / 200 Print module PX4R / 300 Print module PX4R / 600	
		<b>5956152.xxx</b> <b>5956153.xxx</b>	Print module PX4.3R / 200 Print module PX4.3R / 300	
	1.2		<b>5956235.xxx</b> <b>5956123.xxx</b>	Print module PX6L / 200 Print module PX6L / 300
			<b>5956236.xxx</b> <b>5956133.xxx</b>	Print module PX6R / 200 Print module PX6R / 300
	Part no.	Hardware optionen		
	<b>595.xxx.201</b>	Digital I/O interface		
	<b>595.xxx.202</b>	Digital I/O interface Ribbon saver		
	<b>595.xxx.203</b>	OEM – Digital I/O interface		
	<b>595.xxx.204</b>	OEM – Digital I/O interface Ribbon saver		
	Scope of delivery			
	PX print module as label printer, Power cable type E+F, length 1.8 m, Connecting cables USB, length 1.8 m Operating manual de/en <b>DVD:</b> Operating manual de/en/fr, Configuration manual de/en/fr, Service manual de/en, Spare parts list de/en, Programming manual en, Windows printer driver 32/64 bit in 19 languages for Windows XP      Server 2003 Windows Vista    Server 2008 Windows 7        Server 2008 R2 Windows 8        Server 2012 Windows 8.1      Server 2012 R2 Label software cablabel® S3 Lite and Viewer Database Connector en (without license)			
	Part no.	Consumables		
	<b>5956381.001</b>	Printhead 4 / 203		
	<b>5956382.001</b>	Printhead 4 / 300		
	<b>5956383.001</b>	Printhead 4 / 600		
	<b>5956385.001</b> <b>5956384.001</b>	Printhead 4.3 / 200 Printhead 4.3 / 300		
	<b>5954217.001</b> <b>5956322.001</b>	Printhead 6 / 200 Printhead 6 / 300		
	<b>5954180.001</b> <b>5954245.001</b>	Print roller DR4 Print roller DR6		

	Part no.	Accessories	
2.1		<b>5954380</b>	External operation panel
2.2		<b>5965040</b>	Interface cover
2.3		<b>5917651</b>	Interface connector 25-pin SUB D with screw clamps for cable connection
2.4		<b>5917652</b>	Interface connector 15-pin SUB D with screw clamps for cable connection
2.5		<b>5561043</b>	CompactFlash Type I memory card
2.6		<b>5901626</b>	Compact keyboard USB Cherry G84-4100
	Part no.	Interfaces	
3.1		<b>5954200</b>	Centronics interface
3.2		<b>5954201</b>	RS422 / RS485 interface
3.3		<b>5954191</b>	Label selection box – I/O box
3.4		<b>5561041</b>	WLAN card 802.11 b/g
	Part no.	Connecting cable	
4.1		<b>5550818</b>	Connecting cable RS232 C 9/9 pin, length 3 m
4.2		<b>5918008</b>	Patch cable KAT 5e, 3 m gray
	Part no.	Software	
11.9		<b>5588000</b>	Label software cablabel® S3 Lite
		<b>5588001</b>	cablabel® S3 Pro 1 WS
		<b>5588100</b>	cablabel® S3 Pro 5 WS
		<b>5588101</b>	cablabel® S3 Pro 10 WS
		<b>5588150</b>	cablabel® S3 Pro 1 additional licence
		<b>5588151</b>	cablabel® S3 Pro 4 additional licences
		<b>5588152</b>	cablabel® S3 Pro 9 additional licences
		<b>5588002</b>	cablabel® S3 Print 1 WS
		<b>5588105</b>	cablabel® S3 Print 5 WS
		<b>5588106</b>	cablabel® S3 Print 10 WS
<b>5588155</b>	cablabel® S3 Print 1 additional licence		
<b>5588156</b>	cablabel® S3 Print 4 additional licences		
<b>5588157</b>	cablabel® S3 Print 9 additional licences		
		from the 4th quarter 2015	cablabel® S3 Print Server
11.10	<b>9008486</b>	Programming manual english, printed copy	

# Dimensions



Weight of print module	PX4	PX4.3	PX6
in kg	11,5	11,5	12



# cab delivery program

Label printer EOS1  
The compact one for  
label rolls up to 155 mm diameter



Label printer EOS4  
The cost-effective one for  
label rolls up to 210 mm diameter



Label printer EOS mobile  
Both EOS sizes with  
battery pack for mobile print



Label printers A+ series  
The universal ones



Label printer A4+M  
With centered material positioning



Label printer A4+T  
With centered material positioning  
also for textile materials



Label printer XD4T  
Double-sided printing



Label printers XC series  
Two-color printing



Label dispensers HS/VS  
Precise horizontal or vertical  
dispensing up to 180 mm width



Print & apply system Hermes+  
For automation



Print & apply system Hermes C  
For two-color printing and applying



Print modules PX series  
For integration into  
automatic labeling systems



Consumables  
Precise printing with cab labels  
and ribbons



Label software cablabel S3  
Standard and optional



Laser marking system FL+ series  
Precise and fast



Laser safety housing  
The industrial solution



① Headquarter and fabrication  
in Germany

② to ⑩ International  
subsidiaries

There are furthermore 820  
distribution partners in more  
than 80 countries.



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