



Print module

PX-Series The Executive Class

Edition 1 International 2 cab Produkttechnik Content

Precision - Made in Germany



For more than 30 years now cab has been developing and manufacturing label marking systems for industry, commerce and services. The constant requirements of changing markets demand innovative ideas and form tomorrow's products.

Our experience and our aim to make our printers more simple in operation have made cab to a leading manufacturer worldwide.

Made in Germany with a large vertical range of manufacture our quality system is subject to DIN ISO 9001 - from receiving inspection up to consignment.

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Primary features



Ultimate ambitions of construction: High reliability, easy handling, short maintenance and repair.

It is made for fully automatic printing and labelling in a superior industrial environment. The PX print modul prints and dispenses in every installation position and can be integrated in every production line.

The print mechanism and its function units are made of buckling resistant cast materials and are perfectly harmonised in their form and their functions.

All PX modules are available in either left-handed or right-handed printing with a printing resolution of 200, 300 or 600 dpi.

Spare and wear parts are easy to change.

Transfer ribbons are applicable to a length up to 1000 m. The print module can be equipped optionally with a ribbon-saver option.

With the high-tech 32-bit processor, 64 MB RAM and 8 MB flash memory the data process happens in split seconds. The additional memory card on the operation panel or on the CPU stores texts, graphics or specific settings.

All required interfaces like Ethernet, USB or digital IO-interface are factory installed.

Many software tools for direct programming, design and administration are available.

The mechanic installation dimensions are compatible to the systems from Zebra, Sato, Datamax etc.

4 Technical details

Perfection to the detail



1. Operation panel

The large display with white backlight offers best readability.

User-friendly navigator pad with interactive menu navigation.

Memory card slot for storage of label formats, fonts, texts, graphics and data bases.

An additional external operation panel can be attached via one of the three USB-interfaces.

2. Solid metal cover

It is made of dye-cast aluminium. All devices are assembled to it.

3. Ribbon rewinder and unwinder

The threepart tightening axles with adjustable diameter allow a fast and easy ribbon exchange. Small ribbons can be fixed in every position.

4. Easy adjustment for the printout

The printed design is set up by moving the pinch roller.

5. Print head with ribbon saving function

In only a few steps the print heads can be replaced. The print head can be lifted up while dispensing or while label back-feed.

6. Roller replacement

For cleaning or replacement the roller can be easily loosened.

7. Easy replacement of material

The labels are inserted edgewise up to the end position. The print head and the pinch rollers are locked with the levers.

8. Additional USB-slot at the front

For the service key, a key pad and, respectively, a barcode scanner.

9. Back-feed system

After printing the next label can be back-fed to the label edge.

10. Photo cell for transmitted light and reflex

For label positioning and identification of the end of material. Detection up to 60 mm.

All interfaces built in



■ Standard □ Option

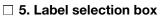
PC/SPS interfaces

- 1. Serial RS232 C interface up to 230.400 Baud
- 2. USB 2.0 High Speed Slave interface
- ☐ 3. Parallel Centronics acc. IEEE 1284 The data from the Centronics interface are converted onto the USB Full Speed interface.

PC connection: 25-pin SubD plug Printer connection: USB Master

☐ 4. Serial RS422 for long distance communication Serial RS485 for networking up to 25 printers.

Serial interface: 25-pin SubD plug Printer connection: USB Master



Up to 16 different input signals for automatic loading and printing of labels from the memory card. Serial interface: 25-pin SubD plug Printer connection: USB Master

Network connection

■ 6. Ethernet 10/100 Base T- interface with TCP/IP protocol Printing with LPR/LPD, Raw IP or FTP. IP adress can be set manually or obtained via DHCP. Status information and set up via internet browser. FTP for firmware updates and PC-card Type II/Compact-Flash administration.

Error messages can be sent via e-mail or SNMP. Time and date synchronisation through time server

- 7. Wireless LAN connection via plug-in-card
- ☐ 8. WLAN-card IEEE 802.11 b/g for wireles network connection, dependend on chip set IEEE 802.11 b: 11 MBit/s, 2,4 GHz Band IEEE 802.11 g: 54 MBit/s, 2,4 GHz Band



Peripherical connection

- 10. Three USB-Master interfaces to connect external operation panel, keyboard, scanner
- 11. Digital I/O-interface 25-pin SubD plug

Input DC isolated 24 Volts (opto coupler)

- 1. Label feed 4. Label in presentation position
- 2. Start of print job
- 5. Reset (deletes the print job)
- 3. Label issued

Output DC isolated up to 24 Volts (solid state relais)

- 1. Ready for operation
- 7. End of label
- Print job available
- 8. Sensor: end of ribbon
- 3. End of print job
- 9. End of ribbon
- 4. Label in present position 10. Signal freely programmable 11. Signal freely programmable
- 5. Error
- 6. Sensor: end of label

The following peripheries and electronic devices can be offered on request:

Sensor: end of label Indicator lamp

Periphery connector for applicators

Stand-Alone operation without PC

Label formats are discarded on the memory card in the printer. It may be used either a CompactFlash- or a PC-Card.

The labels are called via a standard key pad with USB-connection. The variable text is input or changed, shown in the display and then printed.

- 15. Slot CompactFlash-card to store fixed data
- 7. Slot for PC-Card Type II (PCMCIA)
- 10. USB-Master interface for keyboard, scanner

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The data for all devices

	■ Standard □ Option					
1. Print head	PX4+		PX4. 3+		PX6+	
Printing method Transfer						
Thermal direct	-	-	-			
Print resolution dpi	203	300	600	203	300	300
Print speed up to mm/s	300	300	100	200	150	200
Print width up to mm	104	105.6	105.6	104	108.4	162.6
2. Labels						
Material	The	rmal- and star	ndard paper, _I	olastic foils PE	E, PP, PVC, F	PA, PI
Material thickness mm / Weight g/m ²	0.07 - 0.25 / 60 - 160					
Liner width mm with a thickness 0.07 - 0.35 mm			25 -	120		50-180
with a thicknesse 0.25 - 0.35 mm	10 - 120 -				-	
Label width mm			4 -	116		50-176
Label height mm	5 - 2000 6 -2000				6 -2000	
3. Ribbon						
Ink			inside or			
Roll diameter up to mm	102					
Core diameter mm	25					
Ribbon length variable up to m	1000					
Width up to mm	114 16			165		
5. Dimesion printer						
Weight kg			3	3		12

6. Label sensor	
See-through/Reflective sensor from below, adjustable mm 4 - 6	30
7. Elektronics	
Processor high speed 32 Bit ColdFire/speed MHz 266	
RAM MB 64	
ROM MB Flash 8	
Slot for CompactFlash card Type I up to 1 GB ■	
Slot for Cardbus / PC-Card Type II ■	
Real-time clock, Printout of date and time	
8. Operation panel	
Digits/LEDS iluminated while operation Pause, Feed, Cancel	
Menu, Enter, 4 x Curs	
LCD-Graphics Display Width x Height in mm 60 x 40	
Text lines/characters 4 / ca. 2	20
Slot CompactFlash Type I up to 1 GB ■	
9. Interfaces	
Parallel Centronics bi-directional acc. IEEE 1284	
Serial RS 232 C 1.200 up to 230.400 Baud/8 Bit ■	
USB 2.0 High Speed Slave for PC connection	
Ethernet 10/100 Base T, LPD, RawlP-Printing,	
DHCP, HTTP, FTP, SMTP, SNMP, Time client	
RS 422, RS 485 1.200 up to 230.400 Baud/8 Bit	
WLAN Karte 802.11b/g	
Wireless Bridge 802.11b	
USB Master for keyboard and scanner 3x ■	
Digital I/O interface	
10. Settings	NI
Country specific (Arabisch, CZ, D, DK, E, F, GB/USA, H, I, IL, NL, P, PL, RUS, S, SF, TR), system settings, print parameter,	
interfaces, security.	
11. Monitoring	
Stop printing if End of ribbon	
end of label	
printhead open	
Rückzugsystem open	
. 1831. 2893, 313111 32311	

	8	12
12. Test routines		
	System diagnosis of memory and print head when switched on, Short status, status print, font list, device list, profile of print head, profile of label, test grid, monitor mode.	
Status reports	Extensive status print with in about instrument setting, for print length counter, runtime Request of the machine state software command. Detailed messages on the display, for network error-no link, barco	r example e counter. tus via d status or example
13. Fonts		
Font types	5 Bitmap fonts incl. OCR-A 3 Vector fonts Swiss 721, Sv and Monospace 821 availab loadable TrueType fonts.	wiss 721 Bold
Character sets	Windows 1250 up to 1257, 737, 775, 850, 852, 857, 86 869, EBCDIC 500, ISO 8859 and -13 up to -16, WinOEM 7 Macintosh Roman, DEC MC West and East European latir greek, hebrew and arabic car supported. Optional chinese (simplified c	2, 864, 866, -1 up to -10 20, UTF-8, S, K0I8-R. All n, cyrillic, racters are

40 5			
13. Fonts			
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,		
	grey, vertical, depending on character		
	fonts		
Font width	Variable		
14. Graphics			
Graphic elements	Line, arrow, box, circle, ellipse,		
3	filled and filled with fading		
Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG		
15. Codes			
Lineare Barcodes	Code 39, Code 93 Interleaved 2/5		
Elitodio Baroodoo	Code 39 Full ASCII Ident- and Lead-		
	Code 128 A, B, C code of german		
	Codabar Post AG		
	EAN 8, 13 JAN 8, 13		
	EAN/UCC 128 MSI		
	EAN/UPC Anhang 2 Plessey		
	EAN/UPC Anhang 5 Postnet		
	FIM RSS 14		
	HIBC UPC A, E, E0		
2D-Codes	Aztec, Codablock F, Data Matrix, PDF 417,		
	Micro PDF 417, UPS Maxicode, QR-Code,		
	RSS 14		
	All codes variable in height, module width		
	and ratio. Orientation 0°, 90°, 180°, 270°.		
	Optionally with check digit, printed cha-		
	racters and Start/Stop code, depending		
	on code type.		
	on oodo typo.		

	■ Standard □ C	ption
16. Software		•
Programming	J-Script direct programing	
	abc-Basic Compiler	
	Database Connector	
System diagnosis/	cab-printer monitoring	
Administration	cab-Network Manager	
	cab-Card Manager	
cab Label software	cablabel R2 Lite	
	cablabel R2 Pro	
More	Easylabel, Codesoft, Nicelabel,	
Label software	Bartender, Label Matrix, Labelview	
Windows driver	98, ME, 2000, 2003, XP	
	Windows NT from version 4.0	
Mac driver	OS X printer driver from version 10.3	
Linux driver	Testet with Suse 9.0,	
	CUPS based	
17. Operation data		
Power supply	100 - 240 V ~ 50/60 Hz, PFC	
Energy consumption	max. 250 W	
Operation temperat.	10 - 35°C	
Humidity	30 - 85%	
not condensing		
Safety regulation	CE, FCC class A, CB, CCC	
18. Optionen		
Ribbon saver module		Ш
RFID Read-write mod	dule	

The current specifications are according to our technical knowledge. They are subject to change.

Accessories

1. Memory card



sed from the printer or from the PC. slot for a memory card.

Memory card	
CompactFlash Typ I	512 MB

2. External operation panel



Label formats, fonts, texts and gra- Same operation like the operation paphics can be saved. It can be acces- nel on the machine, with an additional

External operation panel			
Connection	USB Mini		
Keys	Menu, Pause, Feed,		
	Cancel, Enter, 4 x Cursor		
Graphic Displ.	60 x 40 mm		
Slot for	CompactFlash-card Typ I		
LxWxHmm	182 x 68 x 30		

3. Num. keyboard



For the input of numeric data in stand-alonemode.

Numerical keyboard			
Connection	USB		
No. of keys	19		
L x W mm	120 x 76		

4. Compact keyboard



For direct input of variable data in stand-alone-mode.

Compact keyboard			
Connection	USB		
No. of keys	86		
L x W mm	282 x 132		

Optimal output through optimal input

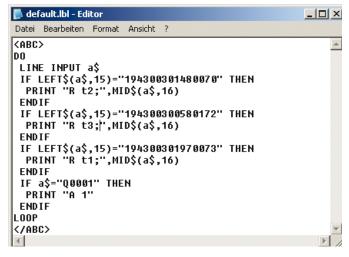
Printer Control

Direct programming with J-Script

J Job Start H 100 Speed (100 mm/s) O R Orientation rotated by 180° S I1;0,0,68,70,100 Size of label (100x68 mm, gap 2 mm) T 10,10,0,5,pt20;sample Text object/font: Swiss bold, 20 pt B 10,20,0,EAN-13,SC2;401234512345 G 8,3.5,0;R:30,9,0.3,0.3 Graphic, box 30 x 9 mm, Line strength 0.3 mm Number of labels (in this example 1)

cab J-Script allows easy programming of the printer by using text strings and this independently from the used label software. Labels can be designed and the status of the printer can be en-quired. The memory card allows to save complex layouts, graphics and fonts, which reduces the data transmission time.

abc - Basic Compiler



The cab Basic Compiler is always one step ahead. With an easy basic programming data is operated or logically combined before they are sent to the printer for further processing. This offers e.g. the possibility to emulate other printers or to integrate data strings from barcode readers or scales in printing processes. All data received is printed in real time.

Database Connector

The cab database connector allows to link up stand-alone printers via TCP/IP interface to central SQL databases in the network. Data can be requested, printed and written back during the printing process.

Monitoring

cab printer monitoring with Intra and Internet



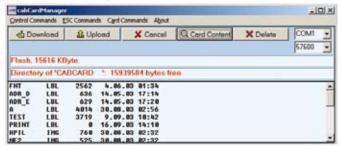
cab printers provide to be monitored and configured with standard web browsers or FTP clients. Firmware updates or data management on the memory card are easy to handle. By the use of SNMP- and SMTP clients, status, warning and error messages are sent via email or SNMP telegram to the network.

Administration

cab-Network Manager

The cab network administration enables the administrator to manage all printers connected to one network at the same time. With a single mouse click different printers can be monitored, configured or updated with firmware; furthermore PIN codes of the printers are changed and data on the memory card can be managed.

cab-Card Manager



Via RS 232 port the memory card can be administrated fast and easly. Label layouts, special text fonts, complex graphics or databases can be up- or downloaded.

cablabel software for cab printers



Perfect labels need optimized text fonts. cab offers a large number of bitmap and vector fonts. Height and width of the font can be scaled and the object can be po-sitioned and arranged. Additional true type fonts can be downloaded to the memory card.

Most of the country specific codepages are supported.

cab Windows driver



Create and print your label with a Windows program for ex. MS Word, Excel, Access, Works, Corel Draw etc.

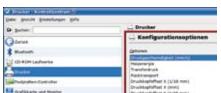
Windows printer driver are provided for Windows 98, ME, 2000, XP, 2003 and NT 4.0

Mac OS X driver



For MAC OS X cab offers a CUPS based printer driver. Please ask us.

Linux driver



For LINUX cab offers also a CUPS based printer driver.

The software to create labels

Powerful functions enable the creation and printing of even complex labels within minutes.

Take advantage of using the multiple possibilities of cablabel R2.

cablabel R2 Lite

is equivalent to the previous Advancedversion. You get it - free of charge - with every cab printer.

cablabel R2 Pro

Assistant for UCC/EAN 128 barcode. Allows the collection of printing data from different data bases.

Wether simple texts, barcodes, graphics and the connection of databases, cablabel R2 is most flexible - all in 24 languages.

MDI (Multiple Document Interface) helps to open and handle several labels at the same time. Objects can be copied, moved and inserted into another label.

cablabel R2 provides its own drivers with individual respond to all different function of cab printers. This most effective way of communication between software and printer enables to achieve perfect results.

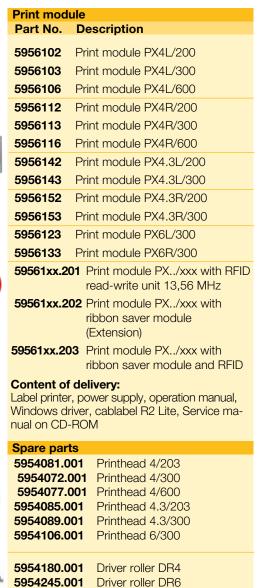
Further label Software

cab offers a range of additional label software (Easylabel, Codesoft, Nice-Label) enabling to program printers, to print and to apply systems.

	Lite	Pro
32-Bit Platform compatibility		
Languages European Version:		
Arabisch, CZ, D, DK, E, F, FIN,		
GB/USA, H, I, IL,N, NL, P, PL,	_	_
RUS, S, TR		
Languages Asian Version:		
Chinesisch, EST, J, LV, ROK		
Label samples		
Online documentationwith		
tutorials		
Multi-level Undo		
number of levels	1	40
Graphic format import		_
Color support		_
Color graphic reduction		
Text art		_
True Type font		▝
Graphic barcodes		
numbers	9	37
Native printer barcodes		_
Hidden (not printable)		
objects		_
Label preview		▝
Graphics preview		_
Grid view/print		-
OLE-Client		₽
Windows driver support	4	
Control of printers	1	99
Support of net printer (TCP/IP)		
Bi-directional communication to		_
the printer		_
Stand-alone		
Printing to file		-
Font Downloader		
Database		
Database Manager		
Access, DBF		
ASCII, ODBC, OLEDB		
Variables		
Flexible date and time stamping		
Host of date and time with		
Date offset		
Printing counter		
Host counter		
Variable graphic images		_
Free variables		_
Global files		_
Decimal value formating		
Basic formular		
User Input Fields		
Text alignment		
Set input format		
Minimum input length Selection of default values		=
		=
Automatic prompt Extras		
UCC/EAN 128 and Maxicode		
Assistent		_
Addiction		

10

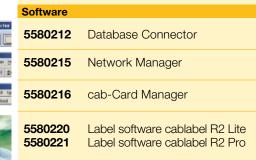
((RFID)

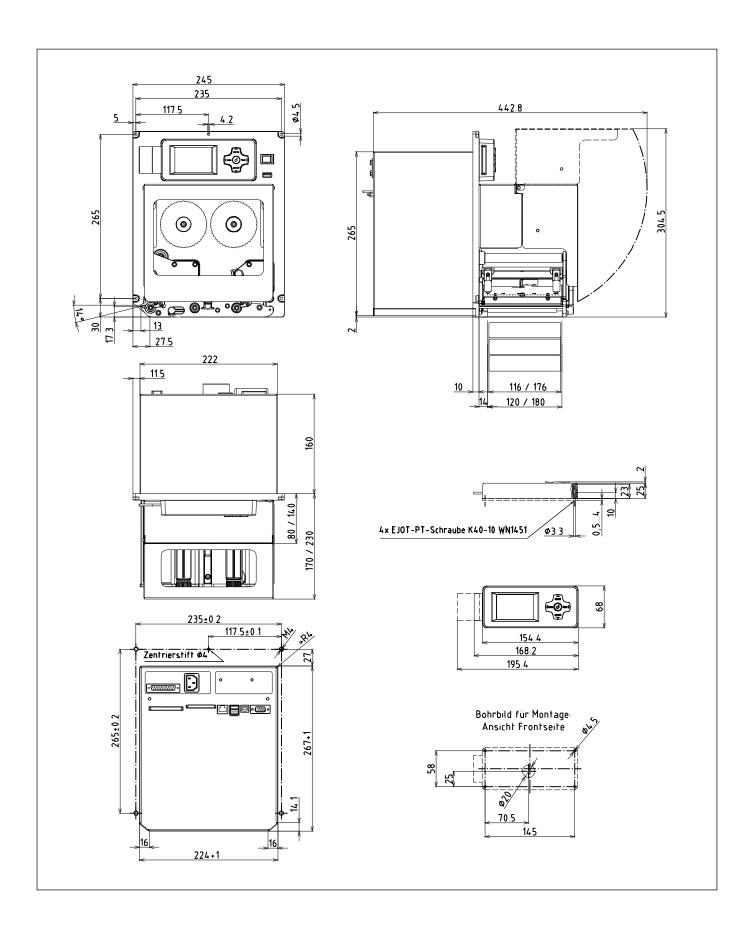
















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