cab
we identify more

Products need labeling

Label printers
with highest operating comfort

eos

Made in Germany

Types

One concept, two sizes

The EOS series combines all functions of a solid label printer with highest operating comfort.

1.1

eos2, the compact one

for label roll diameters up to 152 mm

Label printer		EOS 2	
Printable resolution	dpi	203	300
Print speed	up to mm/s	150	150
Print width	up to mm	108	105.7
Label roll diameter	up to mm	152	152
Power supply		100 - 240 VAC, 50/60 Hz	

1.2

eos5 for large label rolls

with diameters up to 203 mm

Label printer		EOS 5	
Printable resolution	dpi	203	300
Print speed	up to mm/s	150	150
Print width	up to mm	108	105.7
Label roll diameter	up to mm	203	203
Power supply		100 - 240 VAC, 50/60 Hz	

Mobile printing

in production, warehousing or agriculture, wherever labels are required and access to electricity is missing. 24 V input voltage enable the printer to be power supplied by any powerful battery. For technical battery data see accessories

1.3

eos2 mobile

for label roll diameters up to 152 mm

Label printer		EOS 2 mobile
Printable resolution	dpi	300*
Print speed	up to mm/s	150
Print width	up to mm	105.7
Label roll diameter	up to mm	152
Power supply		16.5 - 25 VDC

1.4

eos5 mobile

for label roll diameters up to 203 mm

Label printer		EOS 5 mobile
Printable resolution	dpi	300*
Print speed	up to mm/s	150
Print width	up to mm	105.7
Label roll diameter	up to mm	203
Power supply		16.5 - 25 VDC

*203 dpi on request

Details

1 Roll holder
The label roll is inserted and automatically centered when closing.

2 Ribbon holder
The stop can be adjusted according to the ribbon width.

3 Print head 203 / 300 dpi
In case of cleaning or wear, the print head can be replaced easily by hand without tools.

4 Label sensor - gap or reflective
The sensor position can be adjusted via a spindle using the red rotary knob. The chosen position is indicated by a LED.

5 Print roller DR4
In case of cleaning or wear, the print roller can be replaced without tools.

6 Material guide
Using the rotary knob, the guides can be adjusted to the material width

7 Tear-off plate
made of thin sheet steel; jagged, so labels are cleanly separated

DR4-30

DR4-60

To achieve accurate imprint with slim materials and ribbons, slim print rollers are needed. These prevent from print roller wear, print head contamination and errors during material feed.

Operation panel

Intuitive and easy operation with self-explanatory symbols to configure the device setups

1 LED signal: Power ON

2 Status bar: Data reception, Record data stream, Ribbon pre-warning, SD memory card / USB memory stick, WLAN, Ethernet, USB slave, Time

3 Printer status: Ready, Pause, Number of printed labels per print job, Label in peel-off position, Awaiting external start signal

4 USB slot for the Service Key or a memory stick, to load data in the IFFS storage

5 Operation: Cutter / perforation cutter: cutting
Tear-off mode: print label

Jump to menu   Stop and delete all print jobs

Reprint last label   Label feed

Interrupt and continue print job

Interfaces on the back of the device

1 Slot for a **SD memory card**

2 **2 x USB host** to connect a Service Key, USB memory stick, keyboard, barcode scanner, USB WLAN stick, external control panel

3 **USB 2.0 Hi-speed Device** to connect a PC

4 **Ethernet 10/100 Mbit/s**

5 **RS232C** 1,200 to 230,400 baud/8 bit

Technical data

● typical ■ standard □ option

Label printer	Type	1.1 EOS 2		1.2 EOS 5		1.3 EOS 2 mobile	1.4 EOS 5 mobile
Material feed		centered					
Printing method	Thermal transfer	●		●		●	●
	Thermal direct	●		●		●	●
Printable resolution	dpi	203	300	203	300	300	300
Print speed	up to mm/s	150	150	150	150	150	150
Print width	up to mm	108	105.7	108	105.7	105.7	105.7
Start of printing	Distance to locating edge mm	centered					
Material[1]							
Paper, cardboard, plastics PET, PE, PP, PI, PVC, PU, acrylate, Tyvec		●		●		●	●
Shrink tubes	ready-for-use	●		●		–	–
	continuous, pressed	●		●		–	–
Textile tapes		●		●		●	●
Packing	on rolls, reels	●		●		●	●
	Fanfold	□		□		–	–
	Roll diameter up to mm	152		203		152	203
	Core diameter mm	38.1 - 76					
	Winding	outside or inside					
Labels	Width single-lane mm	10 - 116					
	multi-lane mm	5 - 116					
	Height excl. label backfeed from mm	5					
	incl. label backfeed from mm	12					
	Thickness mm	0.05 - 0.6					
Liner material	Width mm	25 - 120					
	Thickness mm	0.03 - 0.16					
Continuous material	Width mm	5 - 120					
	Thickness mm	0.03 - 0.5					
	Weight (cardboard) up to g/m²	180					
Shrink tubes	Width ready-for-use up to mm	120					
	continuous, pressed mm	5 - 85					
	Thickness up to mm	1.1					
Ribbon[2]	Ink side	outside or inside					
	Roll diameter up to mm	72					
	Core diameter mm	25.4					
	Variable length up to m	360					
	Width mm	25 - 114					
Printer sizes and weights							
Width x Height x Depth mm		253 x 191 x 322		264 x 247 x 412		253 x 191 x 322	264 x 247 x 412
Weight kg		4		5		4	5
Label sensor indicating the position							
Gap sensor	for	labels or punch marks and end of material, print marks on transparant materials					
Reflective sensor	reflex from below or top for	labels and end of material, print marks on non-transparent materials					
Distance of sensor	from centre to locating edge centered mm	0 - 58					
Material passage	up to mm	4					
Electronics							
Processor 32 bit clock rate	MHz	800					
Main memory (RAM)	MB	256					
Data memory (IFFS)	MB	50					
Slot to connect a SD memory card (SDHC, SDXC)	up to GB	512					
Battery for time and date, real-time clock		■					
Data memory when power is switched off (e.g. serial numbering)		■					
Interfaces							
RS232C 1,200 to 230,400 baud/8 bit		■					
USB 2.0 Hi-speed device to connect a PC		■					
Ethernet 10/100 Mbit/s		LPD, RawIP printing, SOAP web service, OPC UA, WebDAV DHCP, HTTP/HTTPS, FTP/FTPS, TIME, NTP, Zeroconf, SNMP, SMTP, VNC					
2 x USB host on the control panel, 2 x USB host on the back of a unit		Service Key, USB stick, USB WLAN stick, USB WLAN stick with a rod antenna, keyboard, barcode scanner, external control panel					
USB WLAN stick 2.4 GHz 802.11b/g/n 2.4 GHz 802.11b/g/n + 5 GHz 802.11a/n/ac, rod antenna		hotspot mode or infrastructure mode □					
Peripheral connection USB host, 24 VDC		■					
Operating data							
Power supply		100 - 240 VAC, 50/60 Hz				24 VDC	
Power consumption		Standby 1,8 W / typical 45 W / max. 100 W					
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, FCC Class A, ICES-3, cULus, CB, CoC Mexico, CCC, BIS, BSMI, KC-Mark				CE, FCC Class A, ICES-3	
Operation panel							
Colored LCD touch display	Screen diagonal "	4.3					
	Resolution Width x Height px	272 x 480					

[1] The material specifications are standard values. Applications with small labels, thin, slim, thick and stiff materials as well as strongly adherent labels have to be tested.
[2] The ribbon should at least correspond with the width of the liner material.

Technical data

■ standard   □ option

Setup options

	Print Labels Ribbon Tear-off Cut Interfaces Error	Region: - Language - Country - Keyboard - Time zone Time Display: - Brightness - Power saving mode - Orientation Interpreter

Status bar

	Data reception Record data stream Ribbon pre-warning SD memory card plugged USB memory stick plugged	WLAN Ethernet USB slave Time

Monitoring

	Ribbon pre-warning End of ribbon End of material	Periphery error Print head voltage Print head temperature Print head open

Test routines

System diagnostics	on start-up, including print head detection	
Information display, test printout, analysis	Status printout Fonts list List of devices WLAN status	Test grid Label profile List of events Monitor mode

Status reports	- Printout of device settings,
	  e.g. print lengths and service hours
	- Device status request by software command
	- Display of, e.g., network errors, no links,
	  barcode errors, periphery errors, etc.	

Fonts

Font types internally provided to be stored	5 bitmap fonts: 12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A OCR-B TrueType fonts	7 vector fonts: AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold
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	Size in width and height 0,9 - 128 mm Variable zoom Orientation 360° in steps of 1°	
Font styles	bold, italic, underlined, outline, inverse - depending from the font types	
Character spacing	variable or monospace	

Graphics

Graphic elements	Lines, arrows, rectangles, circles, ellipses - filled or filled with fading
Graphic 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 Rectangle 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, stacked omni-directional	
	All codes are variable in terms of height, modular width and ratio; orientations 0°, 90°, 180°, 270° check digit, plain text printout and start / stop code are options depending from the type of code	

Software

|		
Label software	cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print	■ ■ □ □
Also running with	CODESOFT Loftware Spectrum NiceLabel BarTender	■
Stand-alone operation		■
Windows printer drivers for	Windows 10 Server 2016 Windows 11 Server 2019 Server 2022 Certification WHQL in preparation	■
Apple printer drivers	Mac OS X 10.6 or any later release	■
Linux printer drivers	CUPS 1.2 or any later release	■
Programming	JScript printer language abc Basic Compiler ZPL II (Datastream be tested in advance)	■ ■ □
Integration	SAP Database Connector	■ ■
Administration	Printer control Configuration in Intranet and Internet	■ ■

cab uses free and Open Source Software in its products.
For information see **www.cab.de/opensource**

Label software cablabel S3

Designing, printing, administrating

cablabel S3 opens up the full potential of cab devices.

First of all, the label must be designed. Only when it comes to printing it has to be decided whether the label shall be processed on a label printer, a print and apply or marker laser system. cablabel S3 is of a modular design which makes it adaptable to requirements step by step. To support functions like native JScript programming, elements such as the JScript Viewer are embedded as plug-ins. The designer user interface and the JScript code are synchronized in real time. Special functions like the Database Connector or barcode testers can be integrated. For further information see **www.cab.de/en/cablabel**
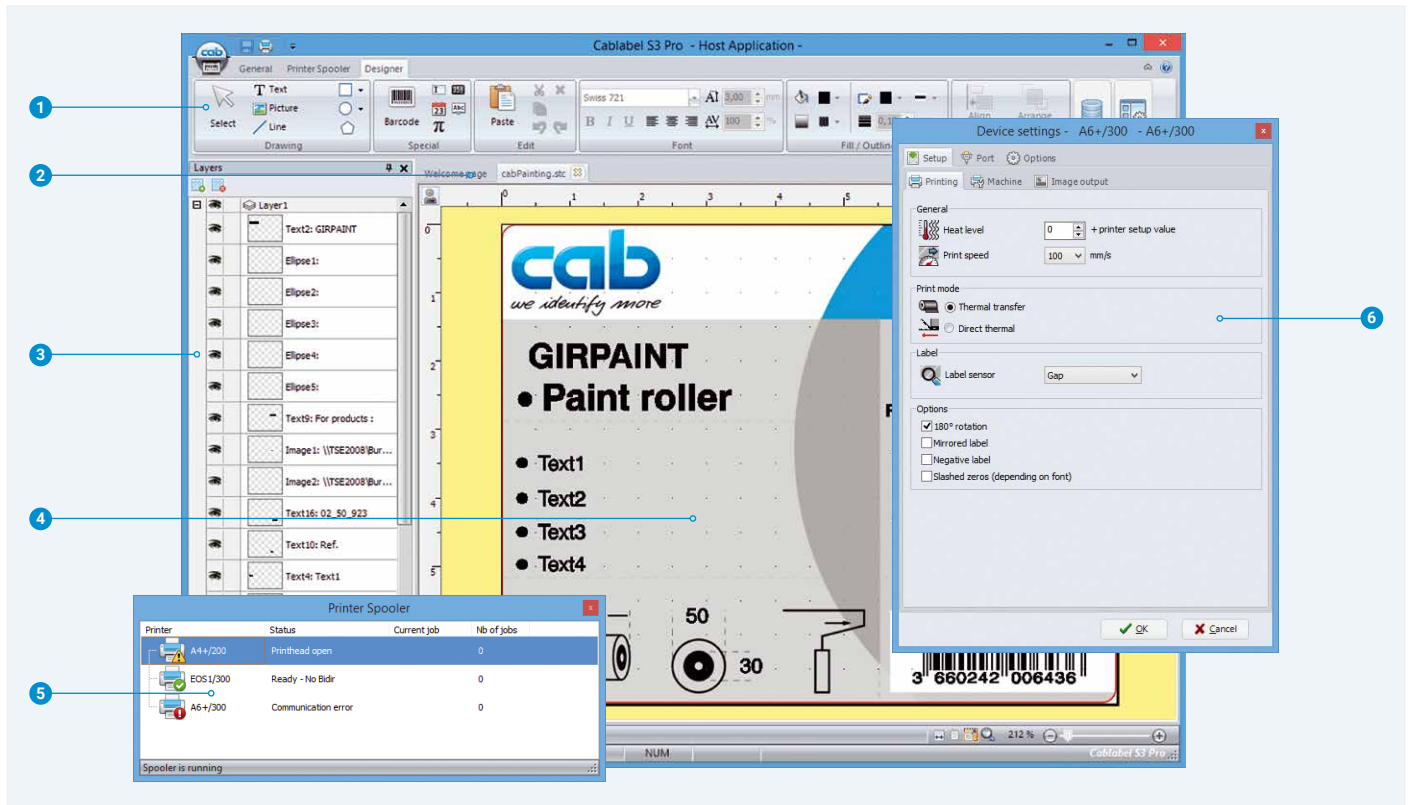
❶ Toolbar
to create different label objects

❷ Tabs
to quickly switch from one running label design to another

❸ Layers
to administrate different label objects

❹ Designer
simplifies the design and displays the label WYSIWYG

❺ Printer spooler
to monitor all print jobs and the state of the printer

❻ Drivers
for setting and the communication with devices

Printing in stand-alone operation

This operating mode is the printer's ability to select and print labels even when it is not connected connected to a host system.

The label has to be designed with a software such as cablabel S3 or by direct programming with a text editor on a PC. Label formats, texts, graphics as well as database contents are stored on a memory card, a USB memory stick or in the internal IFFS memory.

Only variable data are sent to the printer via a keyboard, a barcode scanner, scales or other host systems and/or recalled by the Database Connector from the host and printed.

Printer control

Drivers

cab provides drivers to control a printer with software other than cablabel S3.

Free download on **www.cab.de/en/support**

Programming

JScript

To control the printer, cab has developed the embedded programming language JScript. See manual for free download at **www.cab.de/en/programming**

abc Basic Compiler

In addition to JScript and as an integral part of the firmware, it allows advanced printer programming before data are sent to printout. For example, external printer languages can be replaced without interfering in the current print job. Also data from other systems such as a scale, a barcode scanner or PLC can be integrated.

Integration

Printer Vendor Program

As a partner in SAP's[1] Printer Vendor Program, cab has developed a replace method to enable easy control of a cab printer via SAPScript from SAP R/3. Only variable data are sent to the printer by the host. Pictures and fonts that had priorly been stored in the local memory (IFFS, memory card, etc.) are merged.

Step 1	Step 2	Step 3
Create a label and a replace file with cablabel S3	Use the replace file and replace the variable data in SAPScript	Printout from SAP
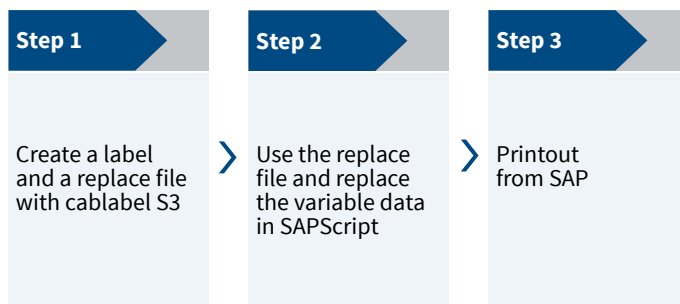
[1] SAP and all corresponding logos are trademarks or registered trademarks of SAP SE

Printer administration

Configuration in Intranet and Internet

The HTTP and FTP server integrated in the printer via standard programs like a web browser or FTP clients allows printer control and configuration, firmware updates and memory card administration. Via email or SNMP, the SNMP and SMTP client datagram sends status, warning and error messages to administrators and users. Time and date are synchronized by a time server.

Database Connector

Printers connected to a network may directly access data from a central ODBC or OLEDB-ready database and print it on a label. While printing, data can be rewritten to the database.

Accessories for all types of devices

2.3	**Print roller DR4-30** Material width up to 30 mm; synthetic rubber coating for accurate imprint
	Print roller DR4-60 Material width up to 60 mm; synthetic rubber coating for accurate imprint
2.4	**External operation panel** If the operation panel of a printer cannot be accessed, an additional external one can be plugged. Same functionality as on the printer Landscape or portrait mode Operability as desired on the external operation panel or on the printer
	Printer connectivity: USB 2.0 Hi-Speed device cab provides specified **connecting USB cables** for power supply. Lengths are 1.8 m to 16 m.

2.5	**SD memory card**
2.6	**USB memory stick**
2.7	**USB WLAN stick** 2.4 GHz 802.11b/g/n
2.8	**USB WLAN stick** 2.4 GHz 802.11b/g/n + 5 GHz 802.11a/n/ac in infrastructure mode with rod antenna for extended reach
2.10	**Label selection - I/O box** Up to 16 different labels per box can be selected from the memory card by a master control, e.g. PLC. Two boxes can be connected. The I/O box allows simple PLC control processes with four inputs and outputs each via abc programming.
3.1	**Connecting cable RS232 C** 9/9 pin, length 3 m

Cutter

All printable materials can be cut.
The cutter can be pivoted to exchange the material.

		Cutter
Technical data		**for EOS 2, EOS 5**
Material Width	mm	120
Weight cardboard	gr/m²	60 - 240
Thickness	mm	0.05 - 1.1
Cutting length	from mm	10
Gap height	up to mm	2.5
Cuts/min	up to	200
Label winding		preferably outside
Monitoring		Cutter pivoted, final cutter position has not been reached

Cutter and perforation cutter

Continuous materials such as textiles or shrink tubes
are perforated before they are manually separated.
In addition, the materials can also be cut.
The cutter can be pivoted to exchange the material.

|			**Cutter and perforation cutter**
Technical data			**for EOS 2, EOS 5**
Perforating	Web distance	mm	2.5
	Web width	mm	0.8
Material Width		mm	45
Weight cardboard		gr/m²	60 - 240
Thickness		mm	0.05 - 1.1
Cutting length		from mm	10
Gap height		up to mm	2.5
Cuts/min		up to	200
Label winding			preferably outside
Monitoring			Cutter pivoted, final cutter position has not been reached

Accessories

5.1

External unwinder

When inserted, the material rolls are automatically centered.
The unwinder cannot be installed with EOS mobile.

Technical data		External unwinder for EOS 2, EOS 5
Roll diameter	up to mm	390
Core diameter	from mm	38
Winding		outside or inside
Roll weight	up to kg	4

5.2
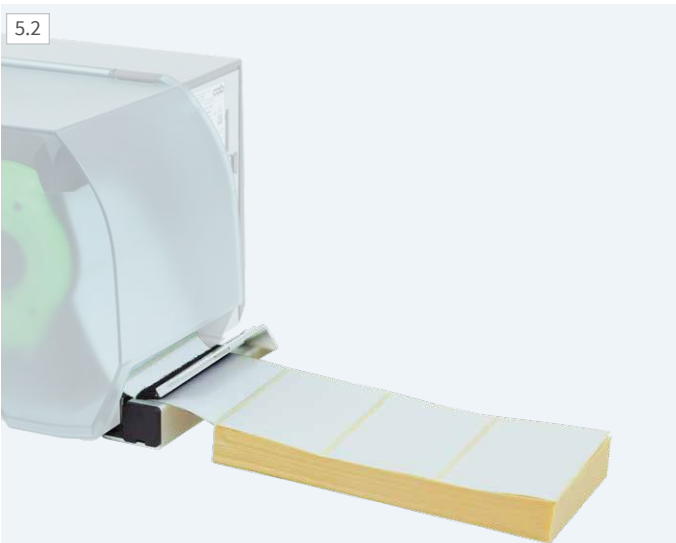
Brake for fanfold labels

for EOS 2 and EOS 5. The fanfold material
is tightly fed in the printer and printed precisely.
The brake cannot be installed with EOS mobile.

6.1

Battery pack

with a charger unit already included for mobile operation.
It is installed under EOS mobile. Per battery capacity,
a maximum of 500 print jobs with a label size of 100 x 68 mm
and 15 per cent density may be processed.

Technical data		Battery pack 2 for EOS 2, EOS 5
Nominal voltage	V	18
Capacity	Ah	2.1
Power	Wh	36
Charging time	approx. h	2
Charging voltage		100 - 240 VAC, 50/60 Hz
Dimensions W x H x D	mm	221 x 58 x 270
Weight	kg	2.5

Delivery program

Pos.		Part no.	Printers
1.1		**5978201**	Label printer EOS 2/200
		5978202	Label printer EOS 2/300
1.2		**5978211**	Label printer EOS 5/200
		5978212	Label printer EOS 5/300
1.3		**5978202.600**	Label printer EOS 2 mobile/300
1.4		**5978212.600**	Label printer EOS 5 mobile/300

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

Provided online
Instructions in 30 languages
Configuration manual DE / EN / FR
Service manual DE / EN
Spare parts list DE / EN
Programming manual EN
Windows printer drivers for
Windows 10   Server 2016
Windows 11   Server 2019
Server 2022
Certification WHQL in preparation
Apple Mac OS X printer drivers DE / EN / FR
Linux printer drivers DE / EN / FR
Label software cablabel S3 Lite
cablabel S3 Viewer
Database Connector

https://setup.cab.de/en

Pos.		Part no.	Wear parts
2.1		**5966096.001**	Print head 200 dpi
		5965580.001	Print head 300 dpi
2.2		**5965488.001**	Print roller DR4

Pos.		Part no.	Accessories
2.3		**5966218.001**	Print roller DR4-30
		5966219.001	Print roller DR4-60

Pos.		Part no.	Accessories
2.4		**6010186**	External operation panel
		5907718.850	Connecting cable USB , 1.8 m
		5907730.850	Connecting cable USB, 3 m
		5907750.850	Connecting cable USB, 5 m
		5907760.850	Connecting cable USB, 11 m
		5907765.850	Connecting cable USB, 16 m
2.5		**5977370**	SD memory card
2.6		**5977730**	USB memory stick
2.7		**5978912.001**	USB WLAN stick 2.4 GHz 802.11b/g/n
2.8		**5977731**	USB WLAN stick with rod antenna 2.4 GHz 802.11b/g/n + 5 GHz a/n/ac
2.10		**5948205**	Label selection - I/O box
3.1		**5550818**	Connecting cable RS232 C 9/9 pin, length 3 m
4.1		**5965520**	Cutter EOS 2
		5966730	Cutter EOS 5
4.2		**5965910**	Cutter and perforation cutter EOS 2
		5969891	Cutter and perforation cutter EOS 5
5.1		**5965586**	External unwinder EOS
5.2		**5953753**	Brake for fanfold labels EOS
6.1		**5542640**	Battery pack 2 EOS 2
		5542660	Battery pack 2 EOS 5

Pos.		Part no.	Label software
11.7		Bundle	cablabel S3 Lite (Download at 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 add. licence
		5588151	cablabel S3 PRO 4 add. licences
		5588152	cablabel S3 PRO 9 add. licences
		5588002	cablabel S3 Print 1 WS
		5588105	cablabel S3 Print 5 WS
		5588106	cablabel S3 Print 10 WS
		5588155	cablabel S3 Print 1 add. licence
		5588156	cablabel S3 Print 4 add. licences
		5588157	cablabel S3 Print 9 add. licences
		in preparation	cablabel S3 Print Server
11.10		**9008486**	Programming manual EN, printed copy

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.

Information is also available on the Internet:
www.cab.de/en/eos

Overview of cab products

Label printers
MACH1, MACH2

Label printers
EOS 2

Label printers
EOS 5

Label printers
MACH 4S

Label printers
SQUIX 2

Label printers
SQUIX 4

Label printers
SQUIX 6.3

Label printers
SQUIX 8.3

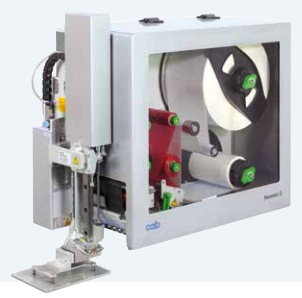Label printers
XD Q double-sided

Label printers
XC Q two-colored

Print and apply systems
HERMES Q

Print and apply systems
Hermes C two-colored

Tube labeling systems
AXON 1

Print modules
PX Q

Labels and ribbons

Label software
cablabel S3

Label dispensers
HS, VS

Labeling heads
IXOR

Marking lasers
XENO 4

Laser marking systems

For product information see **www.cab.de/en**

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we identify more