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cab
we identify more



Label printers
for printing with two colors

XC Q
Made in Germany

XC Q label printers for printing with two colors



Highlights

- **300 dpi**, printable as wide as 105.7 mm or 162.6 mm
- **Heating** can be assigned separately to each print head.
- If **printing only with print head 2**, print head 1 is lifted by menu control.
- **Automated ribbon saving** is provided on print head 1. The print head is lifted and the ribbon is stopped during material feed. Opening or closing the print head may result in stress marks on wax ribbons.
- **Continuous print images** when cutting at no backfeed
- **Optimized printing**, so that multiple print jobs can be printed seamless
- **CSQ 402 cutters** are provided for XC Q4 printers, **CU600 cutters** for XC Q6.3.
- Find **documentation** on the Internet. DVDs are no longer part of delivery.



Types of printers

1.1



XC Q4 providing a tear-off plate

All materials wound on a roll can be printed.

| Label printer | | XC Q4 |
|---------------------|-----------|-------|
| Print resolution | dpi | 300 |
| Print speed | mm/s max. | 150 |
| Print width | mm max. | 105.7 |
| Width of a material | mm max. | 114 |

1.2



XC Q4 providing a CSQ 402 cutter

Paper labels and self-adhesive labels, cardboard and synthetic materials can be cut.

| Label printer | | XC Q4-C2 |
|---------------------|-------------------------|----------|
| Print resolution | dpi | 300 |
| Print speed | mm/s max. | 150 |
| Print width | mm max. | 105.7 |
| Width of a material | mm max. | 114 |
| Tray | Materials as long as mm | 100 |

1.3



XC Q6.3 providing a tear-off plate

All materials wound on a roll can be printed.

| Label printer | | XC Q6.3 |
|---------------------|-----------|---------|
| Print resolution | dpi | 300 |
| Print speed | mm/s max. | 150 |
| Print width | mm max. | 162.6 |
| Width of a material | mm max. | 180 |

Technical data

● typical ■ standard □ option

| Label printer | | | XC Q4 | XC Q6.3 |
|--|--|--|--|-----------------|
| Guidance of materials | | | aligned to the left | |
| Print method Thermal transfer | | | ● | |
| Print resolution dpi | | | 300 | 300 |
| Print speed mm/s max. | | | 150 | 150 |
| Print width mm max. | | | 105.7 | 162.6 |
| Automated ribbon saving | | | ● | ● |
| Material¹⁾ | | | | |
| Paper, cardboard, synthetics PET, PE, PP, PI, PVC, PU, acrylate, Tyvec | | | ● | |
| Textile tape | | | ● | - |
| Finishing Roll | | | ● | |
| Roll diameter mm max. | | | 300 | |
| Core diameter mm | | | 76 | |
| Winding | | | outside or inside | |
| Label Width mm | | | 20 - 116 | 46 - 176 |
| Height mm at least | | | 10 | |
| Thickness mm max. | | | 0.1 | |
| Liner Width mm | | | 24 - 120 | 50 - 180 |
| Thickness mm | | | 0.03 - 0.16 | |
| Continuous Width mm | | | 24 - 120 | 50 - 180 |
| Thickness mm | | | 0.03 - 0.5 | |
| Weight (cardboard) g/m ² max. | | | 300 | |
| Ribbon ²⁾ Color side | | | outside or inside | |
| Roll diameter mm max. | | | 80 | |
| Core diameter mm | | | 25.4 | |
| Length m max. | | | 450 | |
| Width mm max. | | | 114 | 170 |
| Printer dimensions, weights | | | | |
| Width x Height x Depth mm | | | 248 x 395 x 554 | 358 x 395 x 554 |
| Weight kg | | | 22 | 24 |
| Label sensors, position indicators | | | | |
| Transmissive sensor detecting | | | labels, punch marks, materials ending, print marks on translucent materials | |
| Reflective sensor from below or top detecting | | | labels, materials ending, print marks on non-translucent materials | |
| Sensor distance to locating edge mm | | | 5 - 60 | |
| Material passage mm max. | | | 2 | |
| Electronics | | | | |
| Processor, 32 bit clock rate MHz | | | 800 | |
| RAM MB | | | 256 | |
| IFFS MB | | | 50 | |
| Port for plugging a SD memory card (SDHC, SDXC) GB max. | | | 512 | |
| Battery for indicating time and date, real-time clock | | | ■ | |
| Data kept in memory (e.g. serial numbers) when power turns off | | | ■ | |
| Interfaces | | | | |
| RS232-C 1,200 to 230,400 baud / 8 bit | | | ■ | |
| USB 2.0 Hi-Speed device to plug 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 USB hosts on the control panel, 2 USB hosts 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 host, 24 VDC, for peripheral plugging | | | ■ | |
| Digital I/O interface providing 8 inputs and 8 outputs | | | □ | |

¹⁾ Specifications are standards. Operations including small, slim, thick or stiff materials need testing, so do strongly adhesive labels.

²⁾ A ribbon should be at least as wide as the liner material.

Technical data

■ standard □ option

| Operating data | |
|--|---|
| Voltage | 100-240 VAC, 50/60 Hz, PFC |
| Consumption of power | <10 W in standby / 100 W in typical operation / max. 200W |
| Temperature / Operation | +5 - 40°C / 10 - 85 %, not condensing |
| humidity | 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, CCC, BSMI, Mexico Reg. |
| | in preparation KC-Mark, BIS |
| Control panel | |
| Color LCD touchscreen | Diagonal " 4.3 |
| | Resolution Width x Height px 480 x 272 |
| Setup options | |
| Print Labels | Region: - Language |
| Ribbon | - Country |
| Tear off | - Keyboard |
| Cut | - Time zone |
| Interfaces | Time |
| Error | Display: - Brightness |
| | - Power saving mode |
| | - Orientation |
| | Interpreter |
| Status bar | |
| Receive data | WLAN |
| Record datastream | Ethernet |
| Warning to a ribbon ending | USB Slave |
| SD memory card plugged | Time |
| USB stick plugged | |
| Controls | |
| Ribbon 1/2 | Print head 1/2 |
| - Winding | - Voltage |
| - Prior warning | - Temperature |
| - End of ribbon | - open |
| Running out of material | Peripheral error |
| Test routines | |
| System diagnostics | upon startup, detection of print head included |
| Information display, test printout, analysis | Status printout Test grid |
| | Fonts list Label profile |
| | List of units List of events |
| | WLAN status Monitor mode |
| Status reports | - Printout of print durations, running hours, etc. |
| | - Status of a unit requested by software command |
| | - Display of errors related to a network, barcode or peripheral device, as well as links missing |
| Fonts | |
| Integral | 5 bitmap fonts: 12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A OCR-B |
| | 7 vector fonts: AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold |
| For storing | TrueType fonts |
| Sets of characters | 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 Arabian |

| Fonts | |
|-----------------------------|---|
| Bitmap | 1 mm to 3 mm wide and high Zoom factors 2 to 10 0°, 90°, 180°, 270° orientations |
| Vector / TrueType | 0.9 mm to 128 mm wide and high Continuous zoom 360° orientation in steps of 1° |
| Styles | bold, italic, underlined, outline, inverse - depending on the font type |
| Character spacing | proportional or monospace |
| Graphics | |
| Elements | lines, arrows, rectangles, circles, ellipses - filled or gradient |
| 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 code, 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 may vary in height, modular width and ratio. 0°, 90°, 180°, 270° orientations Feasibility of check digits, plain text printouts and start/stop coding depends on the type of code. |
| Software | |
| Label software | cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print |
| Running also 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 on the Intranet and Internet |

Free and Open Source software in cab products:
www.cab.de/opensource

cablabel S3 software

Design, print, administrate

cablabel S3 opens up the full potential of cab devices. Defining a label is first. Modular design adapts cablabel S3 to requirements step by step. Plug-ins are embedded. Native JScript programming, for example, is supported by the JScript Viewer. The designer user interface and JScript codes synchronize in real time. Optional features can be integrated, such as the Database Connector or barcode verifiers.



See further information on www.cab.de/en/cablabel

Stand-alone operation

This operating mode enables a printer select and print labels while not connected to a host system. Labels can be designed using software such as cablabel S3 or a text editor on a PC. Label formats, texts, graphics and data of a database can be stored on a memory card, a USB stick or a printer's IFFS memory. Only variable data are sent by a keyboard, a barcode scanner, a scale or any other host system to a printer, or be recalled by the Database Connector from a 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

cab printers embed JScript language. Download free manual on www.cab.de/en/programming



abc Basic Compiler

Integral to the firmware, abc in addition to JScript enables advanced programming before data are edited for printout. For example, external printer languages can be replaced without intervening in a print job in progress. Data may be imported as well from other systems such as scales, barcode scanners or PLC.

Integration



Printer Vendor program

cab as a member of this program developed a replace method for controlling cab printers from SAP¹⁾ R/3 using SAPScript. Only variable data are sent by a host system to a printer. They add on the printer to local images and fonts (IFFS, memory card, etc.).

Database Connector



Printers in a network may access data from a ODBC / OLEDB database and print it on labels. Data can be rewritten to a database while print jobs are in progress.

Printer administration

Configuration on the Intranet und Internet



Integral HTTP / FTP servers enable a printer be controlled or configured, firmware be updated and memory cards be administrated using standard applications such as a web browser or a FTP client. Administrators and operators on behalf of SNMP / SMTP are notified of states, alerts and errors by email or SNMP datagrams. Time and date are synchronized by a time server.

OPC UA



All the latest cab printers have been designed ready for interacting with machines and components of different manufacturers in industrial plants. An OPC UA server is part of the firmware.

See further information on www.cab.de/en/opcua

¹⁾ SAP and associated logos are trademarks or registered trademarks of SAP SE.

Accessories / optional equipment

| | | |
|-----|---|--|
| 2.1 |  | SD memory card |
| 2.2 |  | USB stick |
| 2.3 |  | USB WLAN stick 2.4 GHz 802.11b/g/n Hotspot mode or infrastructure mode |
| 2.4 |  | USB WLAN stick with a rod antenna for extended range of operation 2.4 GHz 802.11b/g/n + 5 GHz 802.11a/n/ac Hotspot mode or infrastructure mode |
| 2.6 |  | I/O interface plug SUB-D, 25 pins, for connecting all control signals to the I/O interface |

| | | |
|-----|--|--|
| 2.7 |  | Digital I/O interface Labeling is triggered via a PLC, a sensor or a hand switch. Status reports and errors are displayed simultaneously. |
| 2.8 |  | Fanfold guide for XC Q4 and XC Q6.3 Fanfold labels are inserted behind the print head. A guide in addition to a brake enable the labels be fed reliably to the print mechanics. |

Cutting, rewinding



Cutters

Paper, cardboard, textile and synthetic materials can be cut.

A CSQ can be pivoted to simplify material changeover.

A tray allows collecting a maximum of 50 labels.

Label heights can be adjusted.

A CU400 is still recommended with textile operations.

| Cutter | CSQ 402 | CU400 | CU600 |
|--------------------|--|-------|---------|
| Operated with | XC Q4 | XC Q4 | XC Q6.3 |
| Material: | | | |
| Passage width | mm max. | 120 | 120 |
| Passage height | mm max. | 2.0 | 2.0 |
| Weight (cardboard) | gr/m ² max. | 300 | 300 |
| Thickness | mm max. | 1.1 | 1.1 |
| Cutting length | mm at least | 10 | 5 |
| Tray | Materials as wide as mm | 100 | 100 |
| Performance | cuts/min at use of material 1 mm high, no backfeed | 200 | 100 |
| Controls | no final cutter position | | |
| | cutter cover removed | - | - |

External ER4, ER6 rewinders, power supply built in

Label webs may be wound outside or inside. They are wound consistently and tight by electronic control, with a pendulum arm.

| External rewriter | ER4/300 | ER6/300 |
|---------------------|--------------------------|--|
| Operated with | XC Q4 | XC Q6.3 |
| Width of a material | mm max. | 120 |
| Roll diameter | mm max. | 300 |
| Core diameter | mm | 40 if a winder axle or a cardboard core are in use 76 if a cardboard core is in use with an adapter |
| Winding | outside or inside | |
| Adapter kit | <input type="checkbox"/> | <input type="checkbox"/> |

Delivery program

Label printers

| Pos. | | Item no. | Designation |
|------|---|----------|--|
| 1.1 |  | 6011520 | XC Q4 label printer |
| 1.2 | | 6011522 | XC Q4-C2 label printer with a CSQ 402 cutter |
| 1.3 |  | 6011525 | XC Q6.3 label printer |

xxxxxxx.250 options assembled

Wear parts

| Pos. | | Item no. | Designation |
|------|---|----------------------------|--|
| |  | 5987089.001 5987097.001 | Print head 4/300 X Print head 6.3/300 X |
| |  | 5954180.001 5954245.001 | DR4 print roller DR6 print roller |

Accessories / optional equipment

| Pos. | | Item no. | Designation |
|------|---|-------------|--|
| 2.1 |  | 5977370 | SD memory card |
| 2.2 |  | 5977730 | USB stick |
| 2.3 |  | 5978912 | USB WLAN stick 2.4 GHz 802.11b/g/n |
| 2.4 |  | 5977731 | USB WLAN stick with a rod antenna 2.4 GHz 802.11b/g/n + 5 GHz a/n/ac |
| 2.6 |  | 5917651.xxx | I/O interface plug SUB-D, 25 pins |
| 2.7 |  | 5551447.xxx | Digital I/O interface |
| 2.8 |  | 6011930.xxx | Fanfold guide XC Q |
| 5.1 |  | 5978900 | CU400 cutter tray provided |
| | | 5979033 | CU600 cutter |
| 6.1 |  | 5946090 | External ER4/300 rewriter External ER6/300 rewriter |
| | | 5946420 | |
| 6.2 |  | 6011796 | XC Q4 adapter kit XC Q6.3 adapter kit |
| | | 6011797 | |
| 3.1 |  | 5984565.xxx | CSQ 402 cutter |

xxx - .250 assembled to a printer
.001 separate delivery
resp. spare part

Scope of delivery

Label printer
Type E+F power cable, 1.8 m
Connecting USB cable, 1.8 m
Instructions DE / EN

Provided online



<https://setup.cab.de/en>

Instructions
Configuration manuals DE / EN / FR
Service manuals DE / EN
Spare parts lists 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
cablabel S3 Lite software
cablabel S3 Viewer
Database Connector

Accessories

Accessorial products are plugged
or screwed to a printer by a customer.



See further accessories on
www.cab.de/en/xcq-accessories

Optional equipment

Options are parts or units to perform special functions.
They are assembled to a printer in addition to or instead of standards.
If order implies options be assembled ex factory,
corresponding item numbers are added by .250.
Options delivered separately are added by .001.

Delivery program

Label software

| Pos. | Item no. | Designation | |
|-------|---|---|--------------------------|
| 11.7 | Bundle | cablabel S3 Lite (download on 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 additional licence | |
| | 5588151 | cablabel S3 Pro 4 additional licences | |
| | 5588152 | cablabel S3 Pro 9 additional licences | |
| |  | | |
| | 5588002 | cablabel S3 Print 1 WS | |
| | 5588105 | cablabel S3 Print 5 WS | |
| | 5588106 | cablabel S3 Print 10 WS | |
| | 5588155 | cablabel S3 Print 1 additional licence | |
| | 5588156 | cablabel S3 Print 4 additional licences | |
| | 5588157 | cablabel S3 Print 9 additional licences | |
| | | in preparation | cablabel S3 Print Server |
| 11.10 | 9008486 | Programming manual EN, printed copy | |

Scopes of delivery, designs and technical data correspond to the date of this publication. They are subject to change. Catalog data do not represent any warranty or guarantee.

User languages

| Language | Instruc- tions | Control panel | Windows driver | Service manual | cablabel S3 |
|------------------------|-------------------|------------------|-------------------|-------------------|----------------|
| European Union | | | | | |
| Bulgarian | X | X | X | | X |
| Danish | X | X | X | | |
| German | X | X | X | X | X |
| Estonian | X | X | X | | |
| Finnish | X | X | X | | |
| French | X | X | X | | X |
| Greek | X | X | X | | |
| English | X | X | X | X | X |
| Italian | X | X | X | | X |
| Croatian | X | X | X | | X |
| Latvian | X | X | X | | |
| Lithuanian | X | X | X | | |
| Dutch | X | X | X | | |
| Polish | X | X | X | | X |
| Portuguese | X | X | X | | |
| Romanian | X | X | X | | |
| Swedish | X | X | X | | |
| Slovak | X | X | X | | |
| Slovenian | X | X | X | | |
| Spanish | X | X | X | | X |
| Czech | X | X | X | | X |
| Hungarian | X | X | X | | |
| Europe (Non-EU) | | | | | |
| Macedonian | X | X | X | | |
| Norwegian | X | X | X | | |
| Russian | X | X | X | | X |
| Serbian | X | X | X | | |
| Turkish | X | X | X | | |
| Asia | | | | | |
| Chinese (simplified) | X | X | X | | X |
| Chinese (traditional) | X | X | X | | X |
| Japanese | X | | X | | |
| Korean | X | | X | | X |
| Thai | X | X | X | | |
| Middle East | | | | | |
| Persian | | X | | | |
| Arabic | | X | | | |

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 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



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Phone +49 721 6626 0
www.cab.de

France
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Niedermodern
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Taiwan
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China
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