

# SILENIO C 122

S122C, S122C001, S122C1, S122CT, S122CT001, S122CT1

DATASHEET

DS-EN-S122C

**GENERAL DEVICE DATA**

Model description	SILENIO C 122
Item/model number	S122C, S122C001, S122C1, S122CT, S122CT001, S122CT1
Company name	Rein Medical GmbH
Manufacturer name	Rein Medical GmbH
Type	All-in-One Computer
Type description	Medical all-in-one computer for use in patient environments used for medical purposes, such as an operating room
Application areas	RIS, HIS, PACS, endoscopy, video management
Product dimensions (W x H x D)	326 x 521 x 56.5 mm
Mounting	Compatible with VESA 100 mounting system
Weight	6.35 kg
IP protection type	IP X1 (front side IP 65)
Enclosure material	Plastic
Glass type	Protective glass
Anti-reflective coating	optical, AR 95% (with touch display: optical, AR 89%)
Touch display	Optional capacitive multi-touch display (PCT) 10 point
Controls	COMMAND BAR touch control,
COMMAND BAR controls	PC standby,Monitor On/Off,Touch On/Off,Volume +/-,Brightness +/-,Reading light
Enclosure colour	RAL 9003/Signal white(Special colours at customer request, see accompanying documentation)
Mean time between failures (MTBF)	30,000 hours
Warranty	2-year bring-in warranty
Package contents	Power supply unit, Manual for SILENIO, Utility disk with drivers and software, Mounting hardware

**POWER SUPPLY**

Power supply	AC 100 - 240 V $\pm$ 10% (50/60 Hz)
External power supply unit	External 24 V power supply unit (Delta MDS-090AAS24 B)
DC output	-

**POWER CONSUMPTION**

Maximum	60 W
Standby mode	1 VA
Switched off	0 VA

**ENVIRONMENTAL CONDITIONS DURING OPERATION:**

Temperature	0 to 40° C
Humidity	0 to 90% RH (non-condensing)
Shock resistance (in operation)	1.5 Grms, IEC 60068-2-64, Radom, 5-500Hz, 30 min/axis

**ENVIRONMENTAL CONDITIONS FOR STORAGE/TRANSPORT:**

Temperature	-20 to +60° C
Humidity	0 to 90% RH (non-condensing)
Shock resistance (switched off)	as in operation (without optional HDD)

**PC PROPERTIES**

CPU	Intel® Core™ i5 - 6th generation (optional Intel® Core™ i7 - 6th generation)
Chipset	Integrated in Intel® Skylake ULT Processor
RAM	8 GB, optionally up to 16 GB DDR4 2133 SDRAM
Graphics	Intel® HD Graphics HD520, Display port supports up to 4096 x 2304 @60Hz, DirectX 12
Multi-monitor support	Yes
Hard disk	128 GB S-ATA3 SSD (optionally up to 512 GB)
LAN	1 x i219LM PHY, 2 x Intel i211AT GbE controller, 2 x isolation LAN intel i210AT GbE controller
Optical drive	-
Audio	Mic-in, Audio speaker (2 x 2 W)
Ports	HDMI, 1 x RS-232/422/485, 1 x RS-232/422/485 (Isolated 5KV), 1 x RS-232, 1 x RS-232 (Isolated 5KV), 4 x USB3.0, 2 x USB2.0 (Isolated 5KV) (reduced throughput rate)
Extension	1 x mini PCIe full size (support half size, auto switch for mSATA, USB, PCIe signal)
Operating system	Microsoft Windows or Linux operating system optionally preinstalled

**WLAN PROPERTIES**

Wireless network standard	IEEE 802.11a/b/g/n/ac draft 2.0 1T1R
Roaming	yes, (802.11b, 802.11g, 802.11a/b/g, 802.11a/b/g/n, and 802.11ac)
Certificate	Wi-Fi CERTIFIED
Band	Dual Band, 80 MHz
Bandwidth	300 Mbps (2.4 GHz), 867 Mbps (5 GHz) (433 Mbps per stream)
Security/encryption	WPA, WPA2, 802.1x, EAP-SIM, EAP-AKA/64-bit and 128-bit WEP, AES-CCMP, TKIP
WPA specifications	WPA 1/2 PSK (WPA Home), WPA 1/2 801.1x (WPA Enterprise)
Antenna	Integrated 2 x antenna
Radiation pattern:	Omnidirectional
TX/RX streams	2 x 2
Bluetooth module	Intel® Dual Band Wireless-AC 7260
Bluetooth standard	Dual Mode Bluetooth 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE)

**DISPLAY PROPERTIES**

Display size	54.5 cm (21.5")
Panel technology	Active Matrix LCD-TFT
Visible area (H x W)	476,64 x 268,11 mm
Pixel pitch (H x W)	0,24825 x 0,24825 mm
Viewing angle (V x H)	178°/178°
Maximum panel brightness	250 cd/m <sup>2</sup>
Contrast ratio	3000: 1
Response time	13 ms (typical), 5 ms (on/off)
Colour range	16.7 million
Colour depth	8 bits
Greyscales	256
Display norm (VESA)	Full HD (HD1080, 1080p)
Resolution (horizontal x vertical)	1920 x 1080
Aspect ratio	16:9
Backlight	LED
Backlight life	30,000 hours
Pixel defect class	Class II (ISO 9241-307)

**STANDARDS**

Protection class in accordance with IEC 61140	Class II
EU Conformity	Medical device in accordance with CE (MDD 93/42/EEC), Class I
MDD classification	Class 1 according to 93/42/EEC Annex IX Article 12
UMDNS	Computer (10-977)n/a
GMDN	Computer, desktop (38452)n/a
US conformity	Class I product, Patient: not classified - no applied parts

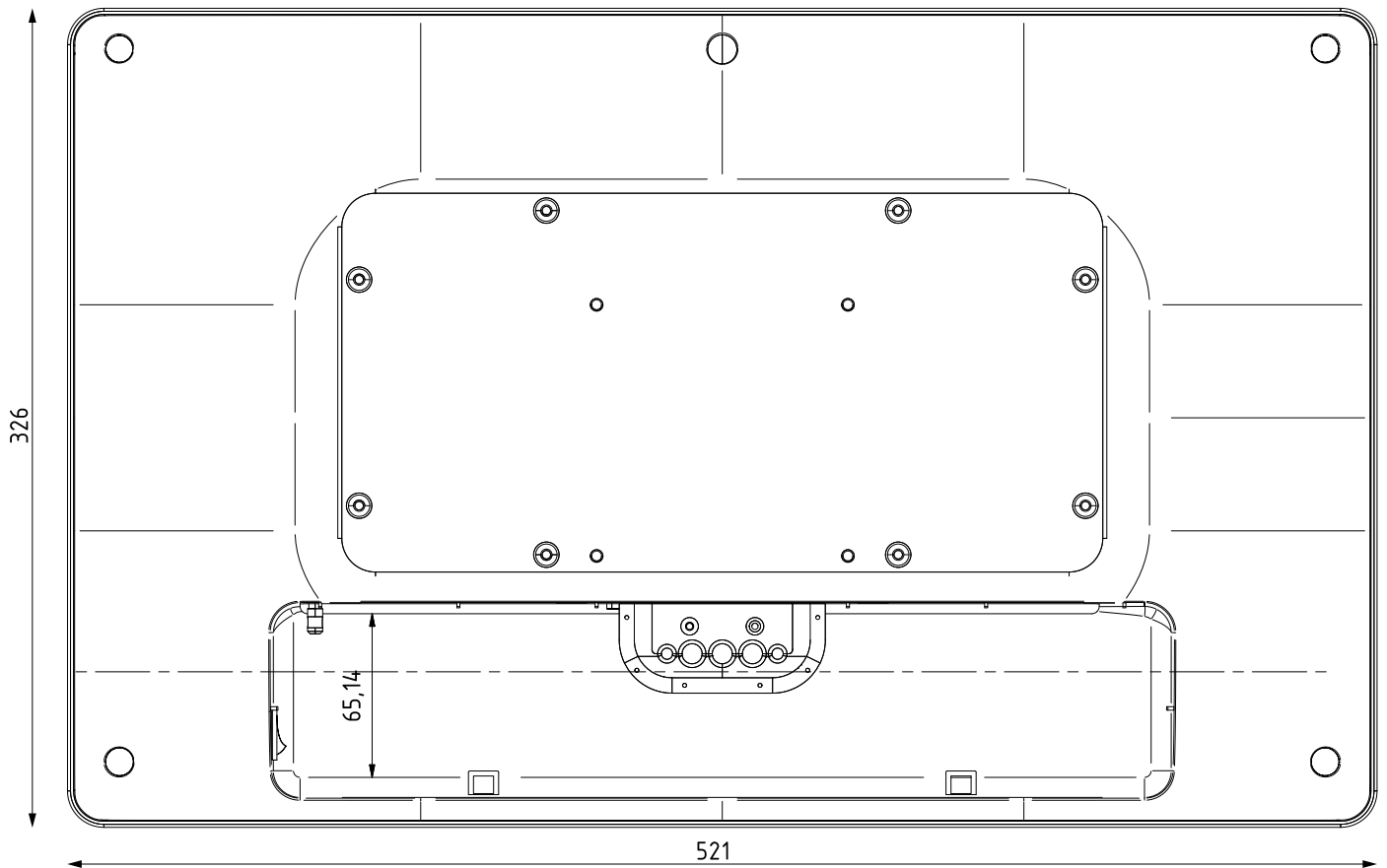
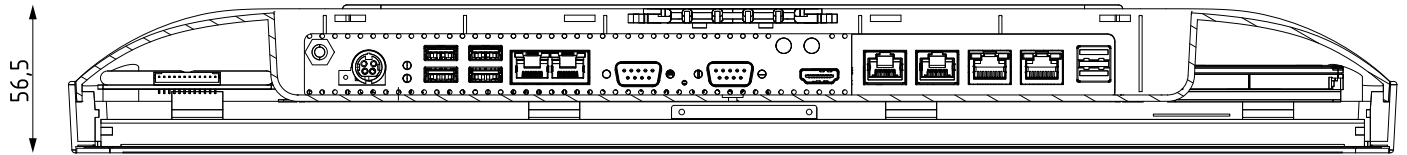
**HYGIENIC PROPERTIES**

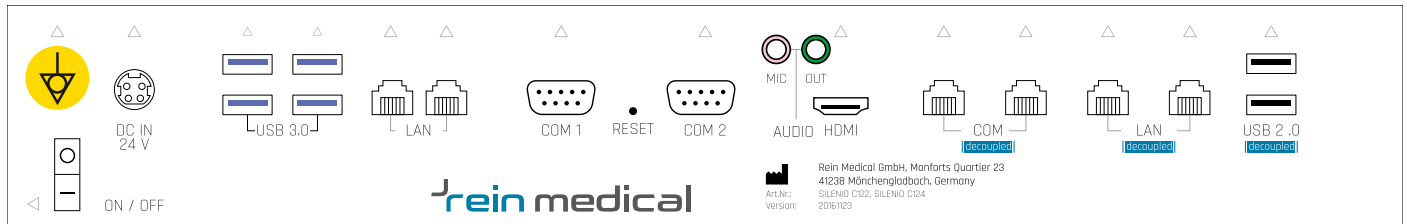
Quality management	EN ISO 13485, ISO 9001
Product safety	EN 60601-1:2006+A1:2013
Electromagnetic compatibility	EN IEC 60601-1-2:2007
Immunity	EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-11
Emission	EN 55011, IEC/CISPR 11:2009 modified, EN 61000-3-2, EN 61000-3-3

**MEDICAL SPECIFICATIONS**

Security Officer for medical devices in accordance with §31 of the German Act on Medical Devices (MPG)	+49 (0) 216 1 69 84 0 sibemp@reinmedical.com
DIMDI registration number:	DE/CA20/14 - Rein medical - 07/01
Applied part in accordance with EN IEC 60601-1	Type: B
Treatment unit/system in accordance with EN IEC 60601-1	no
Device/system collects patient data in accordance with Federal Data Protection Law	no
Use in explosion-proof areas in accordance with the ATEX directive 2014/34/EU	no
STK/MTK in accordance with §5 of the Medical Devices Operator Ordinance (MPBetreibV)	no specific manufacturer specifications
Radiation protection requirements	none
Manufacturer induction obligation	none required, operating personnel are instructed by the medical technician and the user manual

DIMENSION DRAWING





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