



# CLINIO 527C

C527C, C527CT

DATASHEET

DS-EN-C527C

**GENERAL DEVICE DATA**

Model description	CLINIO 527C
Item/model number	C527C: Basic model CLINIO 527C C527CT: CLINIO 527C with touch control
Company name	Rein Medical GmbH
Manufacturer name	Rein Medical GmbH
Type	All-in-One Computer
Type description	Medical monitor 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)	422 x 661 x 80 mm
Mounting	Compatible with VESA 100 mounting system
Weight	tba(depending on configuration)
IP protection type	IP54 (optional IP 65)
Enclosure material	Aluminium
Glass type	Protective glass
Anti-reflective coating	chemical
Touch display	Optional capacitive multi-touch display (PCT)
Controls	COMMAND BAR touch control
COMMAND BAR controls	PC standby, PC reset, Monitor on/off, Touch on/off, Keylock
Mean time between failures (MTBF)	40,000 hours
Enclosure colour	RAL 9010 / pure white (special colours at customer request, see delivery documentation)
Warranty	2-year bring-in warranty
Package contents	Power supply unit (optional)Manual for CLINIOUtility disk with drivers and softwareMounting hardware

**POWER SUPPLY**

Power supply	AC 100 - 240 V $\pm$ 10% (50/60 Hz)Optional 12 V DC input (4-pin XLR) for external power supply unit
External power supply unit (optional)	External 12 V power supply unit (4-pin XLR) (SNP-A 157)
DC output (optional)	DC output: 5 V max. 3 A, 12 V max. 1 A

**POWER CONSUMPTION**

Standby mode	max. 1 VA
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**ENVIRONMENTAL CONDITIONS DURING OPERATION:**

Temperature	0 to 35° C
Humidity	30 to 90% RH (non-condensing)
Barometric pressure	701 to 1013 hPa

**ENVIRONMENTAL CONDITIONS FOR STORAGE/TRANSPORT:**

Temperature	-10 to +60° C
Humidity	30 to 90% RH (non-condensing)
Barometric pressure	266 to 1013 hPa

**PC PROPERTIES**

CPU	Intel® Core™ i5-6500TE - 6th Generation (optional Intel® Core™ i7 - 6th or 7th Generation)
Chipset	Intel® Q170 Express Chipset
RAM	8 GB, optional bis zu 16 GB DDR3
Graphics	Intel® HD Graphics 630 DX12, 2 x DisplayPort 1.2
Multi-monitor support	The image can be displayed on up to three monitors
Hard disk	500 GB SATA3 (optional SSD)
LAN	2 x Intel i219LM / i210AT Gigabit Ethernet (RJ45), 10/100/1000 Mbps, 1 x iAMT 11.0 / vPro 2015, Infinion TPM 2.0, PXE-Support, optional visually decoupled RJ-45 Ethernet adapte
Optical drive	optional integriertes DVD±-RW- oder Blu-ray-Laufwerk
Audio	Realtek ALC671, 5.1-channel high-definition audio codec
Ports	4 x USB 3.0, 5 x USB 2.0 , 2 x Gigabit LAN (1 x iAMT), 1 x DisplayPort V1.2, 1 x DVI-D-Out, 5.1 Multichannel Audio, 2 x RS232, 2 x P/S2-In Mouse/Keyboard
Extension	PCI-Express x16 (Gen3), Shared mSATA / Mini PCI Express slot, project-specific (see supply documents)
Operating system	Microsoft Windows or Linux operating system optionally preinstalled

**WIRELESS LAN PROPERTIES (OPTIONAL)**

Module type	Intel® Dual Band Wireless-AC 8265
Wireless network standard	IEEE 802.11a/b/g/n/ac, 802.11d, 802.11e, 802.11h, 802.11i, 802.11h, 802.11w, 802.11r, 802.11k, 802.11v
Roaming	ja, (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) (433MBps pro 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:	Omnidirektional
TX/RX streams	2x2
Bluetooth module	Intel® Dual Band Wireless-AC 8265
Bluetooth standard	I Mode Bluetooth 4.2 , BLE 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE)

**BARCODE SCANNER PROPERTIES (OPTIONAL)**

Sensor	Proprietary CMOS sensor with global shutter and 844 x 640 pixel resolution; 60 frames per second
Lighting	617 nm visible red LED light
Sensing light	528 nm visible green LED light
Movement tolerance	Up to 584 cm (230") per second in total darkness with 100% UPC at a distance of 10 cm (4")
Optical field of vision	42.4° (horizontal), 33.0° (vertical)
Scan angle	Incline: 360°, pitch: +/- 45°, tilt: +/- 65°
Symbol contrast	20% minimum reflection
Symbologies	Linear: UPC/EAN/JAN, GS1 Databar, Code 39, Code 128, Code 32, Code 93, Codabar/NW7, Interleaved 2 of 5, Code 2 of 5, Matrix 2 of 5, MSI, Telepen, Trioptic, China Post; 2D Stacked: PDF417, MicroPDF417, GS1 Composite: 2D Matrix: Aztec Code, Data Matrix, QR Code, Micro QR Code, MaxiCode, Han Xin Code; Postal: Intelligent Mail Barcode, Postal-4i, Australian Post, British Post, Canadian Post, Japanese Post, Netherlands (KIX) Post, Postnet, Planet Code; OCR Option: OCR-A, OCR-B, E13B (MICR)

**DISPLAY PROPERTIES**

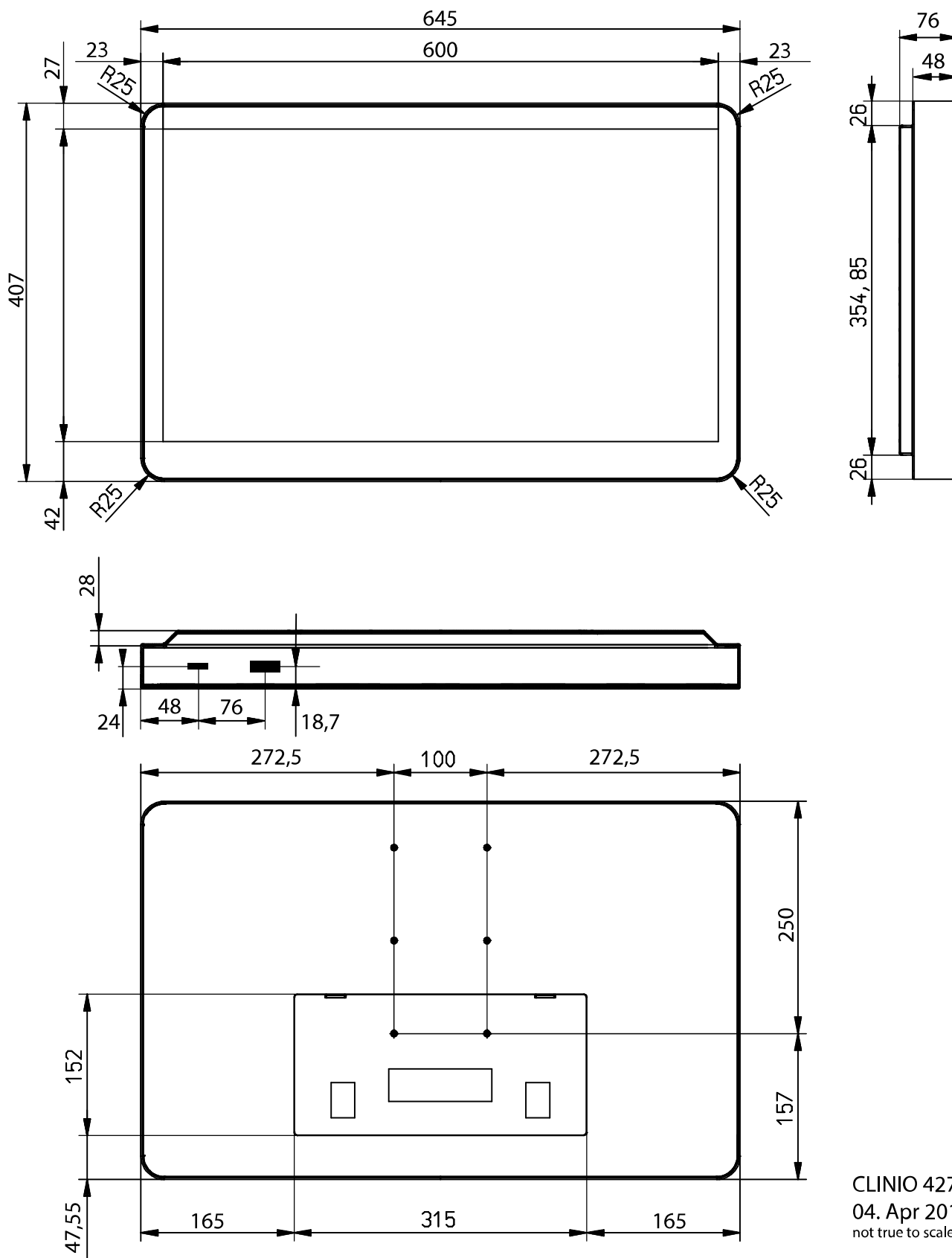
Display size	68.6 cm (27")
Panel technology	Active Matrix LCD-TFT
Visible area (H x W)	336.15 mm x 597.6 mm
Pixel pitch (H x W)	0.311 x 0.311 mm
Viewing angle (V x H)	178°/178°
Maximum panel brightness	300 cd/m <sup>2</sup>
Contrast ratio	3000: 1
Response time	12 ms (typical) (on/off)
Colour range	16.7 million
Colour depth	8 bit
Greyscales	256
Display norm	Full HD (HD1080, 1080p)
Resolution (horizontal x vertical)	1920 x 1080
Aspect ratio	16:9
Backlight	LED
Backlight life	50,000 hours
Pixel defect class	Class II (ISO 9241-307)

**STANDARDS**

Protection class in accordance with IEC 61140	Class I
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	The Device is certified by Prof. R. Mutters, Institute for Medical Microbiology and Hygiene, Philipps-Universität Marburg, Germany. To disinfect the device, use an alcohol-based fast-acting disinfectant suitable for medical devices and materials. Rein Medical recommends the following or equivalent alcohol-based products from the list of disinfectants published by the VAH (Association for Applied Hygiene)/DGKH (German Society for Hospital Hygiene): Terralin liquid® fast-acting disinfectant (contact time of 30 seconds) Terralin protect® surface disinfectant (contact time of ten minutes) Germicidal coated housing
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 55032 class B, IEC/CISPR 32:2015 modified, EN 61000-3-2, EN 61000-3-3
WEEE Category	Category 2 (display with > 100 cm²)

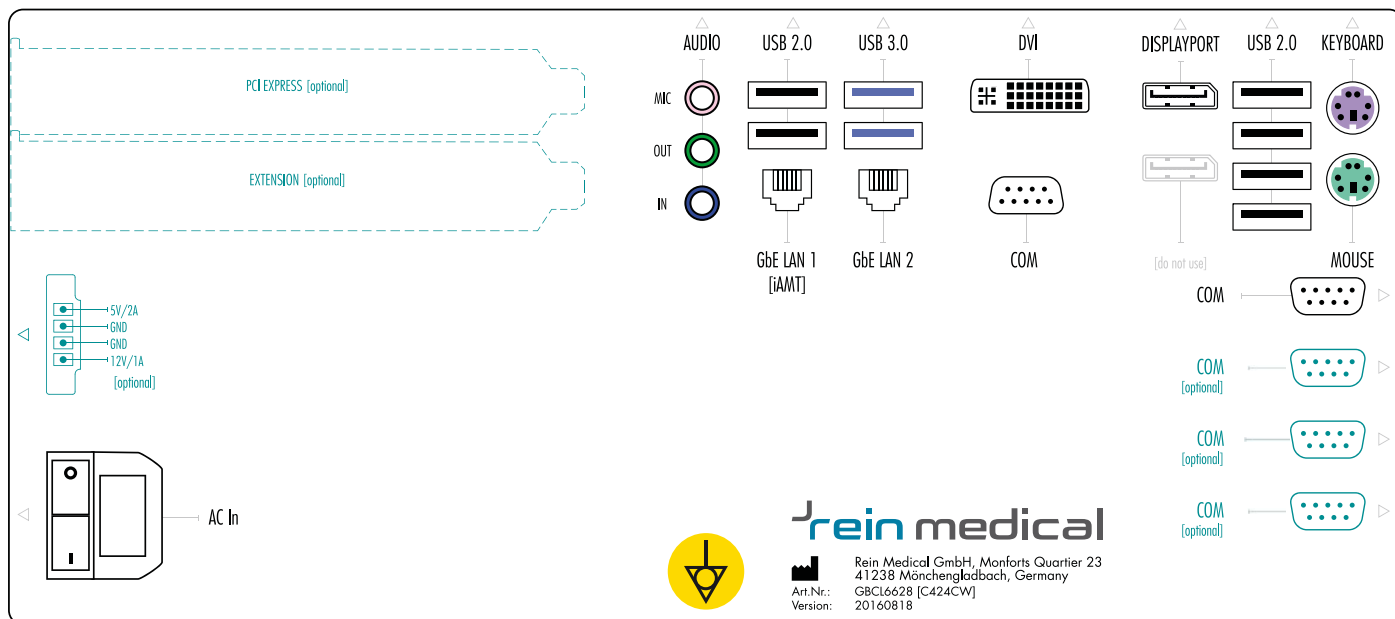
**MEDICAL SPECIFICATIONS**

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 EC directive 93/42/EEC	The device is not a treatment unit/not a system
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 §6 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



CLINIO 427C  
 04. Apr 2016  
 not true to scale

# INTERFACE



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