

Data sheet 6AV7241-1JB05-0DA0

SIMATIC IPC 477E 15" Multitouch (1366 x 768); 4 USB (back), Ethernet (10/100/1000); Celeron G3902E; 3x Gbit Ethernet (IE/PN); 8 GB; without RS 232/RS485; without PCle; Windows 10 Enterprise 2019 LTSC (64-bit), MUI (en,de,fr,it,es) for Celeron, i3 and i5, Without replaceable mass storage; 256 GB Eco SSD; Without SIMATIC software; 24 V DC industrial power supply

General information	
Product type designation	IPC477E
Display	
Design of display	15" TFT multi-touch
Screen diagonal	15.6 in
Resolution (pixels)	
Horizontal image resolution	1 366 pixel
Vertical image resolution	768 pixel
Backlighting	
MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Input device	
Mouse, at front	No
Keyboard fonts	
Function keys	No
alphanumeric keyboard	No
Touch operation	
Design as multi-touch screen	Yes; Projective-capacitive
nstallation type/mounting	
Mounting	For horizontal and vertical mounting
Design	Panel PC, built-in unit
central design	Yes
distributed design	No
Mounting in portrait format possible	Yes
Supply voltage	165
Type of supply voltage	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC
Line frequency	100/240 V AC (autorange) 50/00 Hz, optional 24 V DC
Rated value 50 Hz	Yes
Rated value 60 Hz	Yes
Mains buffering	00
Mains/voltage failure stored energy time	20 ms
Power loss	
In full configuration	24 V DC: max. 88 W, 110 230 V AC
Processor	
Processor type	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)
Chipset	Intel C236 / Intel H110
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
Hard disk	2.5" SATA ≥ 320 GB
SSD	Yes; 128 / 240 / 480 GB
	165, 120 / 240 / 400 GD
Memory True of memory	DDD4 2400 CO DIMM
Type of memory	DDR4-2400 SO-DIMM
Main memory	4 / 8 / 16 GB, ECC optional
Capacity of main memory, max. Data areas and their retentivity	16 Gbyte

Number of Industrial Ethernet interfaces 3.3 x Ethernet (R,145) USB port	Hardware configuration	
Number of compact filesh alots	Slots	
Number of oranget flash alots 1,0 Feat	• free slots	1x PCIe (slot with card retainer), 1x slot for CFAST card
Number of Industrial Ethernet Interfaces	 Number of PCI slots 	1; Optional
Number of Industrial Ethernet interfaces 3.3 x Ethernet (R,145) USB port	 Number of compact flash slots 	1; CFast
USB	nterfaces	
Serial interface	Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
Serial interface Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS Valeo interfaces 2x DisplayPort Industrial Ethernet 3x Ethernet (RJ45) — 100 Mbps 4ves	USB port	4x USB 3.0
Complete interface 2x DisplayPort	Connection for keyboard/mouse	USB / USB
Caraphics interface 2x DisplayPort Industrial Ethernet Ind	serial interface	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS
Industrial Ethernet	Video interfaces	
Industrial Ethernet interface	Graphics interface	2x DisplayPort
	Industrial Ethernet	
Terrupto/diagnostics/status information	 Industrial Ethernet interface 	3x Ethernet (RJ45)
Bus diagnostics / Status information Bus diagnostics / Yes Temperature monitoring	— 100 Mbps	Yes
Bus diagnostics **Temperature monitoring** **Temperature monitoring** **Temperature monitoring** **Ves** **Ves** **Ves** **No No N	— 1000 Mbps	Yes
Monitoring functions * Temperature monitoring * Watchdog * Fan * No * Monitoring function via network * Interference immunity against discharge of static electricity * Interference immunity against high-frequency electromagnetic fields * Interference immunity against high-frequency radiation * Interference immunity against high-frequency radiation * Interference immunity to cable-borne interference * Interference immunity to cable-borne interference * Interference immunity on supply cables * Interference immunity on supply cables * Interference immunity on signal cables > 30m * Interference immunity on signal cables > 30m * Interference immunity on signal cables < 30m * Interference immunity on signal cables < 30m * Interference immunity against voltage surge * asymmetric interference * symmetric interference * symmetric interference * Interference immunity to magnetic fields * Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference * Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference * Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference * Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference * Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference * Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference * Interference immunity to magnetic fields at 50 Hz * Interference immunity to magnetic fields at 50 Hz *	nterrupts/diagnostics/status information	
# Camperature monitoring	Bus diagnostics	Yes
Temperature monitoring Ves Valchdog Ves Fan No No Amonitoring function via network Coptional Minterference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity against high-frequency electromagnetic fields Interference immunity against high-frequency radiation (a) 10 V/m, 80 2000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 2.7 GHz; 10 V, 10 kHz 80 MHz acc. to IEC 61000-4-3; 3 V/m, 2 2.7 GHz; 10 V, 10 kHz 80 MHz acc. to IEC 61000-4-5; surge symmetric electricity Interference immunity on supply cables Interference immunity on signal cables >30m Interference immunity on signal cables >30m Interference immunity against voltage surge Interference immunity to magnetic fields Interference immunity to magnetic fields Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz Interference immunity to magnetic fields Interference emission via line/AC current cables Interference mission via line/AC current cables Interference emission via	ntegrated Functions	
Watchdog Fan No Monitoring function via network Optional **Monitoring function via network Optional **Interference immunity against discharge of static electricity **Interference immunity against discharge of static electricity **Interference immunity against high frequency electromagnetic fields **Interference immunity against high frequency rediction **Interference immunity against high frequency rediction **Interference immunity to assign before the control of the contro	Monitoring functions	
Frame	Temperature monitoring	Yes
Monitoring function via network Monitoring function via network Nontreference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity against high-frequency radiation Interference immunity against high-frequency radiation Interference immunity to cable-borne interference Interference immunity on supply cables Interference immunity on supply cables Interference immunity on signal cables > 30m Interference immunity on signal cables < 30m Interference immunity against voltage surge Interference immunity against voltage surge Interference immunity on signal cables > 30m I	 Watchdog 	Yes
Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity against high-frequency electromagnetic fields Interference immunity against high-frequency electromagnetic fields Interference immunity against high-frequency radiation Interference immunity against high-frequency radiation Interference immunity against high-frequency radiation Interference immunity to able-borne interference Interference immunity on supply cables Interference immunity on supply cables Interference immunity on signal cables >30m Interference immunity on signal cables >40m	● Fan	No
Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against high-frequency electromagnetic fields • Interference immunity against high-frequency radiation • Interference immunity to cable-borne interference • Interference immunity to cable-borne interference • Interference immunity on supply cables • Interference immunity on supply cables • Interference immunity on signal cables >30m • Interference immunity on signal cables >30m • Interference immunity on signal cables <30m • Interference immunity on signal cables <30m • Interference immunity on signal cables <30m • Interference immunity against voltage surge • asymmetric interference • symmetric interference • symmetric interference • symmetric interference • Interference immunity to magnetic fields • Interference immunity to magnetic fields • Interference immunity to magnetic fields at 50 Hz • Interference immunity to magnetic fields at 50 Hz • Interference emission of conducted and non-conducted interference • Interference emission via line/AC current cables • Interferenc	Monitoring function via network	Optional
• Interference immunity against high-frequency electromagnetic fields 10 \(\text{ord} \)	EMC	
electricity	Interference immunity against discharge of static electricity	
Interference immunity against high-frequency electromagnetic fields • Interference immunity against high-frequency radiation OHz; 10 V/n 0 kHz, 80 % AM acc. to IEC 61000-4-6 Interference immunity to cable-borne interference • Interference immunity on supply cables • Interference immunity on supply cables • Interference immunity on signal cables >30m • Interference immunity on signal cables >30m • Interference immunity on signal cables >30m • Interference immunity on signal cables <30m • Interference immunity against voltage surge • asymmetric interference • asymmetric interference • yarmetric interference • location of conducted and non-conducted interference • Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference • Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference • Interference mission via line/AC current cables • Interference emission via line/AC current cables En 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP (at the front) IP (at	Interference immunity against discharge of static	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC
• Interference immunity against high frequency radiation GHz; 10 V/m, 80 2 000 MHz, 80 % AM acc. to IEC 61000-4-5; 3 V/m, 2 2.7 GHz; 10 V, 10 kHz 80 MHz acc. to IEC 61000-4-6 (1000-4-6); 3 V/m, 2 2.7 GHz; 10 V, 10 kHz 80 MHz acc. to IEC 61000-4-5; surge symmetric value of the freence immunity on supply cables by the freence immunity on signal cables > 30 m to linterference immunity on signal cables > 30 m to linterference immunity on signal cables < 30 m to linterference immunity on signal cables < 30 m to linterference immunity against voltage surge • asymmetric interference the freence to linterference the freence to linterference the freence to linterference the freence immunity to magnetic fields at 50 Hz to linterference immunity to magnetic fields at 50 Hz to linterference emission via line/AC current cables to linterference emission via l	electricity	61000-4-2
Interference immunity to cable-borne interference Interference immunity on supply cables Interference immunity on supply cables Interference immunity on supply cables Interference immunity on signal cables >30m Interference immunity against voltage surge Interference immunity against voltage surge Interference immunity on signal cables >42 kV acc. to IEC 61000-4-5, surge, length > 3 m y ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m y ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m y ±2 kV acc. to IEC 61000-4-5, surge symmetric observable surges, and the surge of the surge of the surges of th	Interference immunity against high-frequency electromagnetic fie	elds
Interference immunity to cable-borne interference Interference immunity on supply cables Interference immunity on supply cables Interference immunity on signal cables > 30m Interference immunity on signal cables > 30m Interference immunity on signal cables < 30m Interference immunity on signal cables < 30m Interference immunity on signal cables < 30m Interference immunity against voltage surge Interference immunity against voltage surge Interference immunity on magnetic fields Interference immunity to magnetic fields Interference emission via line/Ac current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Interference emission via line/Ac current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Interference emission via line/Ac current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Interference emission via line/Ac current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Interference emission via line/Ac current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Interference emission via line/Ac current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Interference emission via line/Ac current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Interference emission via line/Ac current cables EN 61000-6-3, EN 61000-6-4, CISPR 22:2004 Class A; FCC Class A Interference emission via line/Ac current cables EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Interference emission via line/Ac current cables EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Interference emission via line/Ac current cables EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Interference emission via line/Ac current cables EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Interference emission via line/Ac current cables EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Interfer	 Interference immunity against high frequency radiation 	
Interference immunity on supply cables Interference immunity on signal cables > 30m Interference immunity on signal cables > 30m Interference immunity on signal cables < 30m Interference immunity on signal cables < 30m Interference immunity on signal cables < 30m Interference immunity against voltage surge asymmetric interference asymmetric interference Interference immunity to magnetic fields Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz Interference immunity against values as symmetric ### Acc. to IEC 61000-4-5, surge asymmetric ### Acc. to IEC 61000-4-4; burst, length < 3 m; ±2 kV acc. to IEC 61000-4-5, surge asymmetric ### Acc. to IEC 61000-4-5, surge asymmetric	Interference income the target and the same interference	GHZ; 10 V, 10 KHZ 80 MHZ acc. to IEC 61000-4-6
symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric • Interference immunity on signal cables > 30m • Interference immunity on signal cables < 30m • Interference immunity on signal cables < 30m • Interference immunity against voltage surge • asymmetric interference • symmetric interference • symmetric interference • symmetric interference • symmetric interference • Interference immunity to magnetic fields • Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference • Interference emission via line/AC current cables • Interference emission via line/AC current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP (at the front) IP (rear) IP (rear) IP20 Standards, approvals, certificates CE mark CSA approval Ves • UL approval • UL 508 CULus Yes CULus Yes CULus Yes CULus Yes CM (formerly C-TICK) Yes EAC (formerly Gost-R) Yes EMC CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 Yes; Optional, only with Multitouch	•	10 12/ t- IEO 04000 4 4 humb 14 12/ t- IEO 04000 4 E
Interference immunity on signal cables > 30m Interference immunity on signal cables < 30m Interference immunity on signal cables < 30m Interference immunity against voltage surge asymmetric interference symmetric interference symmetric interference symmetric interference tables Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz Interference emission via line/AC current cables En 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP (at the front) IP (at the front) IP (arear) IP (rear) IP (rear) IP (rear) IP (rear) IP (supproval Yes CE mark Yes CSA approval Yes CULus Yes CULus Yes CULus Yes CULus Yes RCM (formerly C-TICK) Yes EAC (formerly Gost-R) FCC Yes EMC CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 Yes; Optional, only with Multitouch	Interference immunity on supply cables	
	 Interference immunity on signal cables >30m 	
Interference immunity against voltage surge asymmetric interference symmetric interference symmetric interference symmetric interference Interference immunity to magnetic fields Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz Interference immunity to magnetic fields at 50 Hz Interference emission via line/AC current cables Interference emission via line/AC current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP (at the front) IP (rear) IP (rear) IP (rear) IP (20 Standards, approvals, certificates CE mark CSA approval Yes UL approval UL approval UL 508 CULus Yes CULus Yes CULus Yes CCA (formerly C-TICK) Yes EAC (formerly Gost-R) FCC Yes EMC EMC CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 Yes; Optional, only with Multitouch	, ,	
• asymmetric interference • symmetric interference • later ference immunity to magnetic fields • Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference • Interference emission via line/AC current cables • EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP (at the front) IP (rear) IP (rear) IP20 Standards, approvals, certificates CE mark Yes CSA approval Yes UL approval • UL 508 Yes CULus Yes RCM (formerly C-TICK) Yes RCM (formerly Gost-R) FCC Yes EMC CC, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 Yes; Optional, only with Multitouch		
● symmetric interference #1 kV acc. to IEC 61000-4-5, surge symmetric Interference immunity to magnetic fields ● Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference ● Interference emission via line/AC current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP (at the front) IP (at the front) IP (rear) IP20 Standards, approvals, certificates CE mark CSA approval Ves UL approval • UL 508 CULus Yes CULus Yes CULus Yes CULus Yes CCA (formerty C-TICK) Yes EAC (formerty Gost-R) FCC Yes EMC CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 Yes; Optional, only with Multitouch	Interference immunity against voltage surge	
Interference immunity to magnetic fields Interference immunity to magnetic fields at 50 Hz Interference immunity to magnetic fields at 50 Hz Interference emission via line/AC current cables Interference emission via line/AC current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP (at the front) IP (at the front) IP (rear) IP (rear) IP 20 Standards, approvals, certificates CE mark CSA approval Ves UL approval UL 508 CULus CULus CULus RCM (formerly C-TICK) KC approval Yes EAC (formerly Gost-R) FCC Yes EMC CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 Yes; Optional, only with Multitouch	 asymmetric interference 	±2 kV acc. to IEC 61000-4-5, surge asymmetric
Interference immunity to magnetic fields at 50 Hz Emission of conducted and non-conducted interference	symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Emission of conducted and non-conducted interference • Interference emission via line/AC current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP (at the front) IP (at the front) IP (rear) IP (rear) IP (rear) Standards, approvals, certificates CE mark Yes CSA approval Yes UL approval • UL 508 CULus RCM (formerly C-TICK) Yes RCM (formerly Gost-R) FCC Yes EMC CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 Yes; Optional, only with Multitouch	Interference immunity to magnetic fields	
● Interference emission via line/AC current cables EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Degree and class of protection IP (at the front) IP (at the front) IP (rear) IP (r	 Interference immunity to magnetic fields at 50 Hz 	100 A/m; to IEC 61000-4-8
P (at the front)	Emission of conducted and non-conducted interference	
P (at the front)	• Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
IP (rear)	Degree and class of protection	
CE mark CSA approval Ves UL approval UL 508 CULus RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) FCC Yes EMC CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Ves Ves Ves CE, EN 61001-6-4, only with Multitouch	IP (at the front)	IP65
CE mark CSA approval Yes UL approval UL 508 CULus Yes CULus RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) FCC Yes EMC CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Use in hazardous areas ATEX Zone 2 Yes Yes	IP (rear)	IP20
CSA approval UL approval UL 508 UL 508 CULus Yes CULus Yes RCM (formerly C-TICK) Yes KC approval Yes EAC (formerly Gost-R) FCC Yes EMC CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 Yes	Standards, approvals, certificates	
UL approval		Yes
UL approval	CSA approval	Yes
● UL 508 CULus Yes RCM (formerly C-TICK) Yes KC approval EAC (formerly Gost-R) FCC Yes EMC CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Use in hazardous areas ● ATEX Zone 2 Yes		
CULus Yes RCM (formerly C-TICK) Yes KC approval Yes EAC (formerly Gost-R) Yes FCC Yes EMC CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Use in hazardous areas Yes; Optional, only with Multitouch		
RCM (formerly C-TICK) KC approval Yes EAC (formerly Gost-R) FCC Yes EMC CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 Yes		Yes
KC approval EAC (formerly Gost-R) FCC Yes EMC CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 Yes Yes Yes Yes Yes Yes Yes Ye		
EAC (formerly Gost-R) FCC Yes EMC CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 Yes; Optional, only with Multitouch		
FCC Yes EMC CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 Yes; Optional, only with Multitouch	· ·	
EMC CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A Use in hazardous areas • ATEX Zone 2 Yes; Optional, only with Multitouch		
Use in hazardous areas • ATEX Zone 2 Yes; Optional, only with Multitouch		
ATEX Zone 2 Yes; Optional, only with Multitouch		1_, 0.000 0 ., 0.0 ELLEOUT Glador, 1 00 Glador
		Yes: Optional only with Multitouch
TEVEX CORE C	• IECEx Zone 2	Yes; Optional, only with Multitouch

a el II va Clasa I Zana 2. Division 2	Vac Ontingal only with Multitariah	VICPAS
cULus Class I Zone 2, Division 2 Marine approval	Yes; Optional, only with Multitouch	HMI Parts Center
Germanischer Lloyd (GL)	Yes	
	Yes	
American Bureau of Shipping (ABS)Bureau Veritas (BV)	Yes	
Det Norske Veritas (DNV)	Yes	
Korean Register of Shipping (KRS)	Yes	
Lloyds Register of Shipping (KRS)	Yes	
Nippon Kaiji Kyokai (Class NK)	Yes	
Ambient conditions	165	
Ambient temperature during operation		
• min.	0 °C	
• max.	45 °C	
Ambient temperature during storage/transportation		
• min.	-20 °C	
• max.	60 °C	
Relative humidity		
Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)	
Vibrations	·	
 Vibration resistance during operation acc. to IEC 60068- 2-6 	IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)	
Shock testing		
Shock load during operation	IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)	
Operating systems		
pre-installed operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Ember E/P 32-bit / 64-bit, Windows 10	edded Standard 7
without operating system	Yes; Optional	
pre-installed operating system		
Windows 7	Yes; Ultimate 64 bit	
 Windows 10 Enterprise 	Yes; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI	
Software		
SIMATIC Software	Optionally with pre-installed SIMATIC WinCC RT Advanced / Controller CPU 1500S software bundle	Software
Dimensions		
Width of the housing front	398 mm	
Height of housing front	257 mm	
Mounting cutout, width	382 mm	
Mounting cutout, height	241 mm	
Overall depth	76 mm	
Weights		
Weight, approx.	5.2 kg	

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