

Data sheet 6AV7241-7LB34-0JA2

Display	
Design of display	22" TFT multi-touch
Screen diagonal	21.5 in
Resolution (pixels)	
 Horizontal image resolution 	1 920 pixel
Vertical image resolution	1 080 pixel
Backlighting	
MTBF backlighting (at 25 °C)	30 000 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
Installation 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	
Type of supply voltage	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC
Line frequency	
 Rated value 50 Hz 	Yes
Rated value 60 Hz	Yes
Mains buffering	
 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
Memory	
Type of memory	DDR4-2400 SO-DIMM
Main memory	4 / 8 / 16 GB, ECC optional
Capacity of main memory, max.	16 Gbyte
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Retentive data area (incl. timers, counters, flags), max. Hardware configuration Slots Interfaces Number of industrial Ethernet interfaces Video interfaces Graphics interface Industrial Ethernet Industrial Ethernet interface Industrial Ethernet Industrial Ethernet Industrial Ethernet interface Industrial Ethernet Industrial Ethernet Industrial Ethernet interface Industrial Ether	
Slots	
Slots • free slots • Number of PCI slots • Number of compact flash slots 1; Optional • Number of industrial Ethernet interfaces Number of industrial Ethernet interfaces 1; Optional 1; CFast Interfaces Number of industrial Ethernet interfaces 3; 3x Ethernet (RJ45) USB port 4x USB 3.0 Connection for keyboard/mouse USB / USB serial interface Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS Video interfaces • Graphics interface • Industrial Ethernet • Industrial Ethernet interface — 100 Mbps — 100 Mbps — 1000 Mbps Yes Interrupts/diagnostics/status information	
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- 100 Mbps Yes - 1000 Mbps Yes Interrupts/diagnostics/status information	
— 1000 Mbps Yes Interrupts/diagnostics/status information	
Interrupts/diagnostics/status information	
Bus diagnostics Yes	
Integrated Functions	
Monitoring functions	
Temperature monitoring Yes	
Watchdog Yes	
• Fan No	
Monitoring function via network Optional	
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static ±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge	je acc.
electricity to IEC 61000-4-2	
Interference immunity against high-frequency electromagnetic fields	0
 Interference immunity against high frequency radiation Interference immunity against high frequency against high frequency radiation V/m, 80 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m 2.7 GHz; 10 V, 10 kHz 80 MHz acc. to IEC 61000-4-6 	2
Interference immunity to cable-borne interference	
• Interference immunity on supply cables ±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5,	surge
symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric	Ū
• Interference immunity on signal cables >30m ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m	
• Interference immunity on signal cables < 30m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IE	С
61000-4-4; burst; length > 3 m	
Interference immunity against voltage surge • asymmetric interference	
• symmetric interference ±2 kV acc. to IEC 61000-4-5, surge asymmetric • 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 100 A/m; to IEC 61000-4-8	
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) IP65	
IP (rear) IP20	
Standards, approvals, certificates	
CE mark Yes	
CSA approval Yes	
UL approval Yes	
• UL 508 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	
ATEX Zone 2	Yes; Optional, only with Multitouch
• IECEx Zone 2	Yes; Optional, only with Multitouch
• cULus Class I Zone 2, Division 2	Yes; Optional, only with Multitouch
Marine approval	Too, Optional, only war mailtodor
Germanischer Lloyd (GL)	Yes
American Bureau of Shipping (ABS)	Yes
Bureau Veritas (BV)	Yes
Det Norske Veritas (DNV)	Yes
Korean Register of Shipping (KRS)	Yes
Lloyds Register of Shipping (LRS)	Yes
Nippon Kaiji Kyokai (Class NK)	Yes
Ambient conditions	165
Ambient temperature during operation	0 °C to 45 °C
Ambient temperature during operation Architect temperature during operation	0 °C to 45 °C
Ambient temperature during storage/transportation	20.90
• min.	-20 °C
• max.	00 °C
Relative humidity	T
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/s 2 , 11 ms (without hard disk); 50 m/s 2 , 30 ms (with hard disk)
Operating systems	
pre-installed operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10
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 / Software Controller CPU 1500S software bundle
Dimensions	
Width of the housing front	529 mm
Height of housing front	331 mm
Mounting cutout, width	513 mm
Mounting cutout, height	315 mm
Overall depth	76 mm
Weights	
Weight, approx.	7.9 kg
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