

The perfect solution for every requirement

SIMATIC IPC: all advantages at a glance

Customized solution
Always the right configuration for your requirements

Efficient from the very start
Integrated engineering with Totally Integrated Automation

Quality guarantees your success
Developed and built for industry

For Today and Tomorrow
SIMATIC IPCs combine innovation and continuity

On-site with everything in view
Industrial Flat Panels, Thin Clients, and Tablet PCs

Ergonomic operation
Fast, intuitive operator panels with glass fronts

Tailored to your application
Device versions for special requirements

A home-field advantage in the digital factory
Varied application options for SIMATIC IPCs

Successful applications
SIMATIC IPC: examples of concrete applications

Always by your side
Service and support for SIMATIC IPCs



New product: SIMATIC IPC127E

Industrial PCs for the Digital Factory

Higher performance, quality and sustainability with SIMATIC IPC

siemens.com/ipc

SIMATIC IPC427E		SIMATIC IPC477E			
					General features
Box PC	Panel PC, 15" Touch Widescreen (1280 x 800)	Panel PC, 19" Touch Widescreen (1366 x 768)	Panel PC, 22" Touch Widescreen (1920 x 1080)	Panel PC, 24" Touch Widescreen (1920 x 1080)	Resolution in pixels
–	–	–	–	–	Processor
–	–	–	–	–	Main memory
–	–	–	–	–	Free expansion slots
–	–	–	–	–	Operating systems (preinstalled and activated)
–	–	–	–	–	Packages/bundles
–	–	–	–	–	Power supply / max. power consumption
–	–	–	–	–	MTBF backlighting
–	–	–	–	–	Drives
–	–	–	–	–	Mass storage
–	–	–	–	–	Optical drives
–	–	–	–	–	Interfaces
–	–	–	–	–	Fieldbus
–	–	–	–	–	Ethernet
–	–	–	–	–	USB
–	–	–	–	–	Serial/parallel
–	–	–	–	–	Graphics interface
–	–	–	–	–	Monitoring / diagnostics functions
–	–	–	–	–	Basic functionality
–	–	–	–	–	Advanced functions/remote access
–	–	–	–	–	Ambient conditions
–	–	–	–	–	Degree of protection/EMC
–	–	–	–	–	Vibration during operation ⁹⁾
–	–	–	–	–	Shock load during operation ⁹⁾
–	–	–	–	–	Relative humidity ⁹⁾
–	–	–	–	–	Ambient temperature in continuous operation at full processor load
–	–	–	–	–	Certification/EU directives
–	–	–	–	–	Dimensions
–	–	–	–	–	Operator panel (W x H) Single-touch in mm
–	–	–	–	–	Operator panel (W x H) Multitouch in mm
–	–	–	–	–	Installation dimensions (W x H x D) Single-touch
–	–	–	–	–	Installation dimensions (W x H x D) Multitouch
–	–	–	–	–	Base version (W x H x D)
–	–	–	–	–	Extended version (W x H x D)

	SIMATIC Panel PC Ex OG			SIMATIC HMI Panel PC Ex NG		SIMATIC HMI Thin Client Ex NG		SIMATIC PRO Geräte			SIMATIC Industrial Thin Client				SIMATIC Industrial Flat Panel																				
General features																			General features																
Resolution in pixels	15"/21.5" Multitouch			22" Touch		24" Touch		SIMATIC IPC477E PRO 15"/19"/22" Multitouch			12" Touch				15" Touch				Resolution in pixels																
Max. distance to computer	–			–		–		Unlimited via Ethernet			Unlimited via Ethernet				Standard: 5 m				Max. distance to computer																
Processor	Intel Core i7-3517UE with 1.7 GHz			Intel Atom E3845		Intel Atom E3845		Intel Celeron 827E 1.4 GHz; 1.5 MB SLC or Intel Core i3-3217UE 1.6 GHz; 3 MB SLC or Intel Core i7-3517UE 1.7 (2.8) GHz; 4 MB SLC			Intel Celeron (1.2 GHz)				–				Processor																
Main memory	4 GB or 8 GB RAM			4 GB RAM		4 GB RAM		1 GB, 2 GB, 4 GB or 8 GB; 512 KB NVRAM optional			–				–				Main memory																
Operating systems (preinstalled and activated) / supported protocols	Windows 7 Ultimate MUI ¹⁾ / Windows Embedded Standard 7 P			Windows 7 Ultimate, Windows 7 Embedded		Win 10 Enterprise + Remote Firmware V5		Windows Embedded Standard 7 (E/P), 32-bit/64-bit; Windows 7 Ultimate MUI ¹⁾ , 32-bit/64-bit; Windows 10 Enterprise			Closed Linux with integrated communication protocols: Smb@Access, RDP, VNC, SINUMERIK, WinCC-OA, Web (HTML5); Designo, JAVA, CITRIX Client (possible restriction with MT usage)				–				Operating systems (preinstalled and activated) / supported protocols																
Power supply / max. power consumption	DC 24 V; 4.6 A (6.9 A) ¹⁰⁾ ; AC 110 V; 1.1 A (1.7 A) ¹⁰⁾ ; AC 230 V; 0.6 A (0.8 A) ¹⁰⁾			DC 24/AC 100 – 240V		DC 24/AC 100 – 240V		DC 24 V (DC 19.2 – 28.8 V)			DC 24 V; +19.2 V – +28.8 V				DC 24 V / ca. 35 W				DC 24 V / ca. 28 W				DC 24 V / ca. 36 W				DC 24 V / ca. 32 W				DC 24 V / ca. 53 W				Power supply / max. power consumption
MTBF backlighting	–			–		–		Bis zu 50.000 h ⁹⁾			Up to 50.000 h ⁹⁾ ; dimmable from 0 – 100%				Up to 50.000 h ⁹⁾ ; 10 to 100% dimming				Up to 80.000 h ⁹⁾ ; dimmable from 0 to 100%				MTBF backlighting												
Drives	SSD with 80 GB, 160 GB, 240 GB, 300 GB, 480 GB			32 GB SSD / 64 GB SSD / 128 GB SSD		64 GB SSD		CFAST up to 16 GB / SSD 80 GB or 160 GB; CFAST up to 16 GB (accessible from outside)			–				–				Drives																
Mass storage	–			–		–		–			–				–				Mass storage																
Ports	2 x Ethernet 10/100/1000 Base Tx (Ex e) or FO 100 Base Fx 100 Mbit (Ex op is)			1 x GB LWL or 2 x 100 Mbit copper		1 x GB LWL or 2 x 100 Mbit copper		2 x 10/100/1000 Mbps (RJ45); teaming; Fieldbus: PROFIBUS DP/MPI isolated; PROFINET RT via Ethernet (optional); PROFINET IRT (optional)			2 x Ethernet 10/100/1000 Mbps (RJ45)				2x Ethernet 10/100/1000 Mbps (RJ45)				Ports																
Ethernet	1 x USB (Ex e), 3 x USB (Ex ia)			2 x USB (Ex ia) 1 x USB (Ex e)		2 x USB (Ex ia) 1 x USB (Ex e)		Rear: 4 x USB 3.0			Rear: 2 x USB 2.0				Rear: 2 x USB 2.0 / MT: 4 x USB 2.0				USB																
USB	1 x RS 232/RS 422/RS 485 (Ex e)			1 x RS 232 (Ex e)		1 x RS 232 (Ex e)		1 x RS 232			–				–				Serial/parallel																
Serial/parallel	DVI out (Ex e)			–		–		1 x DVI, 1 x DisplayPort			–				–				Graphics interface																
Graphics interface	IP66/4X all-round			IP66 (at the front); IP65 (at the rear)		IP66 (at the front); IP65 (at the rear)		All-round IP65 protection/NEMA 4X			All-round IP65 protection/NEMA 4X				IP65 (front)				Ambient conditions																
Ambient conditions	EN 61000-6-2:2005 + AC:2005 EN 61000-6-4:2007 + A1:2011			EN 61000-6-2:2006; EN 61000-6-4: 2007		EN 61000-6-2:2006; EN 61000-6-4: 2007		EN 61000-6-4; CISPR 22 Class A; FCC Class A			EN 61000-6-2; EN 61000-6-4				CE; EN 61000-6-4				Degree of protection																
Degree of protection	3 – 22 Hz; 1 mm; 22 – 500 Hz; 9.8 ms ⁹⁾ (1 g) ⁹⁾			5 bis 13,2 Hz: ±1 mm 13,2 bis 100 Hz: ±0,7 g		5 bis 13,2 Hz: ±1 mm 13,2 bis 100 Hz: ±0,7 g		5 – 8,4 Hz: 3,5 mm 8,4 – 200 Hz: 9,8 ms ⁹⁾ (1 g) 50 ms ⁹⁾ ; 30 ms (15 g); 11 ms			5 – 8,4 Hz: 3,5 mm 8,4 – 500 Hz: 9,8 ms ⁹⁾ (1 g) (15 g); 11 ms				10 – 58 Hz; 0,0375 mm; 58 – 200 Hz: 9,8 ms ⁹⁾ (1 g)				Vibration during operation ⁹⁾																
Vibration during operation ⁹⁾	150 ms ⁹⁾ (ca. 15 g); 11 ms			–		–		5 – 85% at 30 °C, no condensation ⁹⁾			10 – 90% at 30 °C, no condensation ⁹⁾				5 – 85% at 25 °C (no condensation)				Shock load during operation ⁹⁾																
Shock load during operation ⁹⁾	–			–		–		0 – 45 °C			0 – 45 °C				0 – 45 °C				Relative humidity ⁹⁾																
Relative humidity ⁹⁾	–10 °C (opt. –40 °C) ... 65 °C			–20 °C ... +60 °C –30 °C ... +50 °C (with heating option)		–20 °C ... +60 °C –30 °C ... +50 °C (with heating option)		–			0 – 50 °C				0 – 50 °C				Ambient temp. in continuous operation at full processor load																
Ambient temp. in continuous operation at full processor load	Gas: II 2 (1) G Ex e q [ia op is Ga] IIC 14 Gb; Staub: II 2 (1) D Ex tb [ia op is Da] IIC T115 °C Db			IEC, ATEX Zonen 1, 21, 2, 22; CE, NEC, CSA, TR-EAC KGS DNV / GL		IEC, ATEX Zonen 1, 21, 2, 22; CE, NEC, CSA, TR-EAC KGS DNV / GL		CE, cULus, FCC, KC, EAC, RCM, ATEX / IECEx (in preparation), cFmus, Marine			CE, cULus, FCC, RCM, KC, EAC, cFmus, shipbuilding				CE, cULus, FCC, RCM, KC, EAC, cFmus				Certification/EU directives																
Certification/EU directives	–			660 x 475		660 x 475		–			330 x 241				330 x 241				Dimensions																
Dimensions	–			–		–		15": 396 x 255; 19": 475 x 296; 22": 527 x 329			19": 475 x 296; 22": 527 x 329				19": 475 x 296; 22": 527 x 329				Operator panel (W x H) Single-touch in mm																
Operator panel (W x H) Single-touch in mm	15": 380 x 394 x 137 21,5": 553 x 458 x 141			615 x 435 x 110		615 x 435 x 110		–			310 x 221 x 82				310 x 221 x 82				Operator panel (W x H) Multitouch in mm																
Operator panel (W x H) Multitouch in mm	–			–		–		–			396 x 291 x 75				396 x 291 x 75				Installation dimensions (W x H x D) Single-touch in mm																
Installation dimensions (W x H x D) Single-touch in mm	–			–		–		–			465 x 319 x 75				465 x 319 x 75				Installation dimensions (W x H x D) Multitouch in mm																
Installation dimensions (W x H x D) Multitouch in mm	–			–		–		–			542 x 362 x 75				542 x 362 x 75				Base version (W x H x D)																
Base version (W x H x D)	–			–		–		–			308 x 219 x 71,1				308 x 219 x 71,1				Extended version (W x H x D)																
Extended version (W x H x D)	–			–		–		–			399 x 291 x 63				399 x 291 x 63																				