

SIEMENS
Ingenuity for life

Industrial PCs for the Digital Factory

Higher performance, quality and sustainability with SIMATIC IPC

siemens.com/ipc

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

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

Successful applications

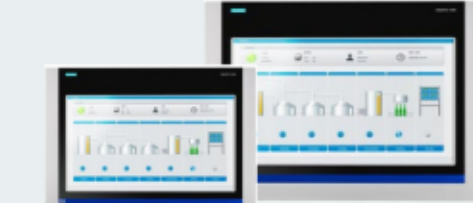
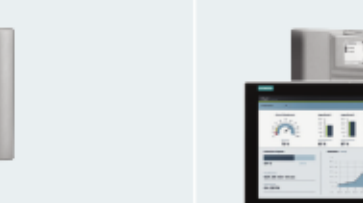
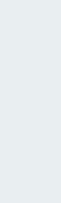
SIMATIC IPC: examples of concrete applications

Always by your side
Service and support for SIMATIC IPCs



New product: SIMATIC IPC127E

Services for Clients with Special Requirements

	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	15"/21,5" Multitouch	22" Touch	24" Touch	22" Touch	24" Touch	SIMATIC IPC477E PRO 15"/19"/22" Multitouch		SIMATIC IFP PRO 19"/22" Multitouch	SIMATIC ITC PRO 19"/22" Multitouch		12" Touch	15" Touch	19" Touch	22" Touch	12" Touch	15" Touch or Multitouch 15" Tasten	19" Touch or Multitouch (optional as Ethernetmonitor)	22" Touch or Multitouch (optional as Ethernetmonitor)	General features				
Resolution in pixels	15": 4:3 (1024 x 768) 21,5": 16:9 (1920 x 1080)	16:10 (1680 x 1050)	16:9 (1920 x 1080); 16:10 (1920 x 1200)	16:10 (1680 x 1050)	16:9 (1920 x 1080); 16:10 (1920 x 1200)	15": widescreen (1280 x 800) 19": widescreen (1366 x 768) 22": widescreen (1920 x 1080)		15": widescreen (1366 x 768) 22": widescreen (1920 x 1080)	19": Widescreen (1366 x 768) 22": Widescreen (1920 x 1080)		Widescreen (1280 x 800)	Widescreen (1280 x 800) MT (1366 x 768)	Widescreen (1366 x 768) MT (1366 x 768)	Widescreen (1920 x 1080) MT (1920 x 1080)	ST widescreen (1280 x 800)	ST widescreen (1280 x 800) MT widescreen (1920 x 1080)	ST widescreen (1366 x 768) MT widescreen (1920 x 1080)	ST widescreen (1920 x 1080) MT widescreen (1920 x 1080)	Resolution in pixels				
Max. distance to computer	–	–	–	Unlimited via Ethernet		–		30 m	–		Unlimited via Ethernet		–		Standard: 5 m	Standard: 5 m; extended: 30 m	Standard: 5 m; extended: 30 m / unlimited as Ethernet monitor	–	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 MU1 V1 Windows Embedded Standard 7 P supported protocols	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 MU1 V1, 32-bit/64-bit Windows 10 Enterprise		–	Closed Linux with integrated communication protocols: Smb/rAccess, 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 V/AC 100 – 240 V	DC 24 V/AC 100 – 240 V	DC 24 V/AC 100 – 240 V	DC 24 V/AC 100 – 240 V	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	24 V DC; 19,2 ... 28,8 V, approx. 40 W; extended version additionally 100–240 V AC, 50/60 Hz		–	–	Power supply / max. power consumption				
MTBF backlighting	–	–	–	Bis zu 50.000 h ¹⁾		–		–	–		Up to 50.000 h ¹⁾ ; dimmable from 0 – 100 %		–		Up to 50,000 h ¹⁾ ; 10 to 100% dimming	Up to 80,000 h ¹⁾ ; dimmable from 0 to 100%		–	MTBF backlighting				
Drives	–	–	–	–		–		–	–		–		–		–	–	–	–	Drives				
Mass storage	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)		–	–		–		–		–	–	–	–	Mass storage				
Ports	–	–	–	–		–		–	–		–		–		–	–	–	–	Ports				
Ethernet	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)		–	2x Ethernet 10/100/1000 Mbps (RJ45)		2x Ethernet 10/100/1000 Mbps (RJ45)		–		–	–	–	–	Ethernet				
USB	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: 4 x USB 2.0		Rear: 2 x USB 2.0 / MT: 4 x USB 2.0		–		Extended Version: 2 x USB 2.0 (at the rear)		–	–	USB				
Serial/parallel	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				
Graphics interface	DVI out (Ex e)	–		–		1 x DVI, 1 x DisplayPort		1 x DVI, 1 x DisplayPort	–		–		–		1 x DVI-D; 1 x DisplayPort (partially 1 x Ethernet and 1 x DisplayPort)		–	–	Graphics interface				
Ambient conditions	–	–		–		–		–	–		–		–		–		–	–	Ambient conditions				
Degree of protection	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	All-round IP65 protection / NEMA 4X		IP65 (front)		IP65 (front)		IP65 (front)		CE; EN 61000-6-4	IP65 (front)	Degree of protection				
EMV	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	EN 61000-6-2; EN 61000-6-4		CE; EN 61000-6-4		CE; EN 61000-6-4		CE; EN 61000-6-4; EN 61000-6-2		CE; EN 61000-6-4; EN 61000-6-2	CE; EN 61000-6-4; EN 61000-6-2	EMV				
Vibration during operation ¹⁾	3 – 22 Hz: 1 mm; 22 – 500 Hz: 9,8 m/s ² (1 g) ¹⁰⁾	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 m/s ² (1 g)		5 – 8,4 Hz: 3,5 mm 8,4 – 500 Hz: 9,8 m/s ² (1g)	5 – 8,4 Hz: 3,5 mm 8,4 – 500 Hz: 9,8 m/s ² (1g)		10 – 58 Hz: 0,0375 mm; 58 – 200 Hz: 9,8 m/s ² (1 g)		10 – 58 Hz: 0,0375 mm; 58 – 200 Hz: 9,8 m/s ² (1 g)		10 – 58 Hz: 0,0375 mm; 58 – 200 Hz: 9,8 m/s ² (1 g)		10 – 58 Hz: 0,0375 mm; 58 – 200 Hz: 9,8 m/s ² (1 g)	10 – 58 Hz: 0,0375 mm; 58 – 200 Hz: 9,8 m/s ² (1 g)	Vibration during operation ¹⁾				
Shock load during operation ¹⁾	150 m/s ² (ca. 15 g); 11 ms	–		–		50 m/s ² ; 30 ms		(15 g); 11 ms	(15 g); 11 ms		50 m/s ² (5 g); 30 ms		50 m/s ² (5 g); 30 ms		150 m/s ² (ca. 15 g); 11 ms		150 m/s ² (ca. 15 g); 11 ms	150 m/s ² (ca. 15 g); 11 ms	Shock load during operation ¹⁾				
Relative humidity ¹⁾	>95% at +65 °C (no condensation)	10 – 90% at +40 °C, no condensation		10 – 90% at +40 °C, no condensation		5 – 85% at 30 °C, no condensation ¹⁾		5 – 85% at 30 °C, no condensation ¹⁾	10 – 90% at 30 °C, no condensation ¹⁾		10 – 90% at 30 °C, no condensation ¹⁾		5 – 85% at 25 °C (no condensation)		5 – 85% at 25 °C (no condensation)		95% at 25 °C (no condensation)	95% at 25 °C (no condensation)	Relative humidity ¹⁾				
Ambient temp. in continuous operation at full processor load	–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 – 45 °C		0 – 45 °C	0 – 45 °C		0 – 50 °C		0 – 45 °C		0 – 50 °C		0 – 50 °C (partially up to 45 °C)	0 – 50 °C (partially up to 45 °C)	Ambient temp. in continuous operation at full processor load				
Certification/EU directives	Gas: II 2 (1) G Ex e q [ia op is Ga] IIC T4 Gb; Staub; II 2 (1) D Ex tb [ia op is Da] IIC T115 °C Db	IEC, ATEX Zonen 1, 21, 2, 22; CEC, NEC, CAS, TR-EAC KGS DNV / GL		IEC, ATEX Zonen 1, 21, 2, 22; CEC, NEC, CAS, 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		CE, cULus, FCC, RCM, KC, EAC, cFmus		CE, cULus, C-Tick; KCC; FM		CE; cULus / cULus Hazardous Location; partially or optionally: ATEX; C-Tick; Marine, EX, KC		CE; cULus / cULus Hazardous Location; partially or optionally: ATEX; C-Tick; Marine, EX, KC	CE; cULus / cULus Hazardous Location; partially or optionally: ATEX; C-Tick; Marine, EX, KC	Certification / EU directives				
Dimensions	–	660 x 475		660 x 475		–		–	–		330 x 241		415 x 310		483 x 337		560 x 380		330 x 241	416 x 298	483 x 337	560 x 380	Operator panel (W x H) Single-touch in mm
Operator panel (B x H) Multitouch in mm	15": 380 x 394 x 137 21,5": 553 x 458 x 141	–		–		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		–		398 x 257		464 x 294		529 x 331		–	398 x 257	464 x 294	529 x 331	Operator panel (W x H) Multi-touch in mm
Installation dimensions Singletouch in mm (W x H x D)	–	615 x 435 x 110		615 x 435 x 110		–		–	–		310 x 221 x 82		396 x 291 x 75		465 x 319 x 75		542 x 362 x 75		308 x 219 x 71,1	399 x 291 x 63	465 x 319 x 63	542 x 362 x 63	Installation dimensions (W x H x D) Singletouch in mm