

SIMATIC IPC MD-57A

Successor of SIMATIC Field PG M6

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New naming concept

Featureset / expandability

1: Basic / low
2: Basic / medium
3: Basic / high
4: Medium / low
5: Medium / medium
6: Medium / high
7: Premium / low
8: Premium / medium
9: Premium / high

Product type

IPC

HMI

CPU performance class

(IPC only)

1: Lowest performance

...

8: Highest performance n-socket

Generation

A, B, C, D, E, G, J, ...



Product category

Form factor (IPC)

BX = **B**ox PC
PX = **P**anel PC
MD = **M**obile **D**evice
RC = **R**ack **C**lient
RW = **R**ack **W**orkstation
RS = **R**ack **S**erver

Form factor (HMI)

IM = **I**ndustrial **M**onitor

Mechanical indicator

(Rack only)

1 = 1 U
2 = 2 U
3 = 3 U
4 = 4 U

Display size

(Monitor only)

07 = 7"
...
24 = 24"

Special version

PRO, EX, ...

If one digit is not used, all subsequent criteria in the naming system shift one position to the left - no gaps!

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SIMATIC IPC MD-57A, rugged and turnkey ready

A reliable device for configuration and simulation: Programming tool for SIMATIC industrial automation components

Powerful Computing System

- Designed with up to intel Core-i7 processor, powerful graphic controller
- Win11 IoT Enterprise

Brilliant Display

- High-resolution, non-glare, 15.6" display in 16:9 full HD format guarantees ergonomic working in the TIA Portal

Wireless data transmission

- Wi-Fi 6E complying with IEEE 802.11 a/b/g/n/ac R2/ax R2(Pre-Standard)
- Bluetooth v5.3 compatibility

Rugged Design

- Design optimal for heavy industry environments. Compliant with IEC 61000-6-2 and IEC 61000-2-4.
- Enclosed with soft rubber corners
- IP30 dust protected

Mobility

- High-performance Li-Po battery with 90WHr ensures long mains-independent operation
- Total weight: 2,8 kg
- Storage Temperature: -20 to 60°C
- Operating Temperature: +5 to +40°C



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Interfaces Overview



IR Camera (1280×720; 30 FPS)
with microphones
and integrated shutter
complying to Windows Hello

Kensington Lock

SIMATIC Memory card slot

SIMATIC Micro Memory card slot

USB3.2 Type-A

Smartcard Reader

Illuminated Keyboard

FingerPrint sensor

TouchPad with
3 dedicated mouse keys

SIMATIC IPC
Dedicated Number Block

Power input

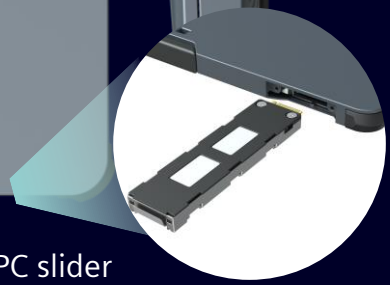
2x USB4 Type-C

HDMI

Multimedia Card Reader

3x USB3.2 Type-A





SIMATIC IPC slider

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Customize SIMATIC IPC MD-57A to your needs

Configuration Options

Processor	Intel® Core™ i7-12800HE Processor (20 Threads, 24MB Cache, up to 4.60 GHz) Intel® Core™ i5 -12600HE Processor (16 Threads, 18MB Cache, up to 4.50 GHz)
RAM	16 / 32 / 64 GB DDR5 SDRAM SO-DIMM
internal M.2 NVME	512GB / 1TB / 2TB
Slider / NVME	No Slider / 512 GB / 1TB / 2TB NVMe SSD Slider

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Operating system and SIMATIC Software

Extensive licenses for TIA Portal project engineering

Operating system	• Windows 11 IoT Enterprise (Version 22H2) 64-Bit • No operating system	
Licenses for pre-installed SIMATIC Software	**Trial**	STEP 7 Professional Combo (V19 & 2021), WinCC Advanced V19, Safety Advanced Combo (V18 & Distributed V5.4 SP5)
	TIA Portal	STEP 7 Professional V19, WinCC Advanced V19, Safety Advanced V19
	TIA Portal Combo	STEP 7 Professional Combo (V19 & 2021), WinCC Advanced V19, Safety Advanced Combo (V19 & Distributed V5.4 SP5)

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Comparison with predecessor

Product designation	SIMATIC Field PG M6	SIMATIC IPC MD-57A
Article number	6ES7718-.....-....	6ES7730-.....-....
Display	15.6" full HD display in 16:9 format	15.6" full HD display in 16:9 format
Resolution (Pixels)	1920x1080	1920x1080
Luminance (cd/m²)	300	300
Keyboard fonts	QWERTZ, QWERTY, or AZERTY	QWERTZ, QWERTY, or AZERTY
Processor	Intel Core i5-8400H or i7-8850H	Intel Core i5-12600HE or i7-12800HE
Graphic	Intel® UHD Graphics 630	Intel® Iris® Xᵉ Integrated Graphics Controller
Security Chip	TPM2.0	TPM2.0
Drives		
DVD-RW	Yes	No
SSD	256 GB, 512 GB, or 2 TB SSD	512 GB, 1 TB or 2 TB M.2 SSD
Memory	1x 8 GB, 1x 16 GB, 1x 32 GB or 2x32 GB DDR4 SO-DIMM	1x 16 GB, 1x 32 GB or 2x32 GB DDR5 SO-DIMM
Replaceable battery	Lithium-Ion battery	Lithium-Polymer battery
Battery capacity	8.25 Ah	8 Ah

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Comparison with predecessor

Product designation	SIMATIC Field PG M6	SIMATIC IPC MD-57A
SIMATIC Interfaces		
Number of interfaces PROFIBUS DP	1x PROFIBUS DP/MPI; 9-pin Sub-D socket; 9.6 kBaud to 12 Mbaud	1x PROFIBUS DP/MPI; 9-pin Sub-D socket; 9.6 kBaud to 12 MBaud
SIMATIC memory card reader	SIMATIC memory cards (for S7-300/400)SMC (for S7-1x00), SIMATIC micro memory card (for S7-300/C7/ET 200)	SIMATIC memory cards (for S7-300/400), SMC (for S7-1x00), SIMATIC micro memory card (for S7-300/C7/ET 200)
Interfaces		
100/1000 Mbps Ethernet	2x RJ45 with 2 independent MAC/IP addresses	2x RJ45 with 2 independent MAC/IP addresses
Serial port	1x COM/RS-232	1x COM/RS-232
USB port	3x USB-A 1x USB-C 3.1 Gen. 2	2x USB-A 3.2 Gen1 2x USB-A 3.2 Gen2x1 2x USB-C 4.0
Smart Card Reader	Yes, complied with ISO/IEC 7816	Yes, complied with ISO/IEC 7816
MMC/SD card slot	2 in 1 (SDHC UHS-II, MMC)	2 in 1 (SDHC UHS-II, MMC)
Universal Audio Jack	Audio socket for 3.5 mm jack	No
Video interfaces	DVI-I, DisplayPort	HDMI 1.4b

Comparison with predecessor

Product designation	SIMATIC Field PG M6	SIMATIC IPC MD-57A
Connection		
Bluetooth radio standard	V5.0	V5.3
WLAN	IEEE 802.11ac	IEEE 802.a/b/g/n/ac R2/ax R2(PreStandard)
Environments		
Operating temperature	+5 ~ +40 °C Max. 10 °C/h (no condensation)	+5 ~ +40 °C Max. 10 °C/h (no condensation)
Storage/Transportation temperature	-20 ~ +60 °C Max. 20 °C/h (no condensation)	-20 ~ +60 °C Max. 20 °C/h (no condensation)
Relative humidity	5~85 % At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14	5~85 % At 30 °C/h (no condensation); Tested according to IEC 60068-2-78, IEC 60068-2-30, IEC 60068-2-14
IP rating	N/A	IP30
Operating system		
Local language of OS	Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)	Multi-Language User Interface (MUI): 6 languages (English, German, French, Spanish, Italian, Chinese)
Windows 10 IoT Enterprise 2021 LTSC	Yes	in preparation
Windows 11 IoT Enterprise (version 22H2)	Yes	Yes

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Comparison with predecessor

Product designation	SIMATIC Field PG M6	SIMATIC IPC MD-57A
Mechanics		
Material of housing	Metal	Metal
Retractable handle	Yes	Yes
Socket for Kensington lock	Yes	Yes
Rubber corner guards	Yes	Yes
Dimensions	385 x 275 x 53 mm	386 x 281 x 41 mm
Weights	3.4 kg	2.8kg
Deliverables	Power supply, backpack, SIMATIC software, restore & recovery media	Power supply, backpack, SIMATIC software, restore & recovery media
Development & Production site	Designed and Made in Germany	Designed and Made in Germany

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