

SIEMENS



Engineered
with
TIA Portal

Economical, user-friendly and efficient

SIMATIC HMI Panels of the latest generation

siemens.com/basic-panels and siemens.com/comfort-panels



TIA Portal is the intuitive, efficient, and proven engineering framework for all automation tasks.

Answers for industry.



“I never compromise on operator control and monitoring. That is why I am banking on the proven but innovative solutions of the world market leader – in all applications.”

New productivity standards for sustained competitive strength

In the face of increasing global competition, it is now more important than ever to make consistent use of optimization potential. With optimized processes over the entire lifecycle of a machine or plant, you benefit from:

- Minimized costs (total cost of ownership)
- Faster time-to-market
- Higher quality

Totally Integrated Automation, industrial automation from Siemens, permits you to achieve these aims by:

- Open system architecture for the entire production process
- Shared system characteristics
- Efficient interaction of all components

SIMATIC, which is the leading automation system worldwide, is the core of Totally Integrated Automation and comprises a wide range of standardized, flexible, and scalable products.

An example: the SIMATIC HMI Basic and Comfort Panels, which we present to you in this brochure.

TIA Portal – your portal for efficient engineering

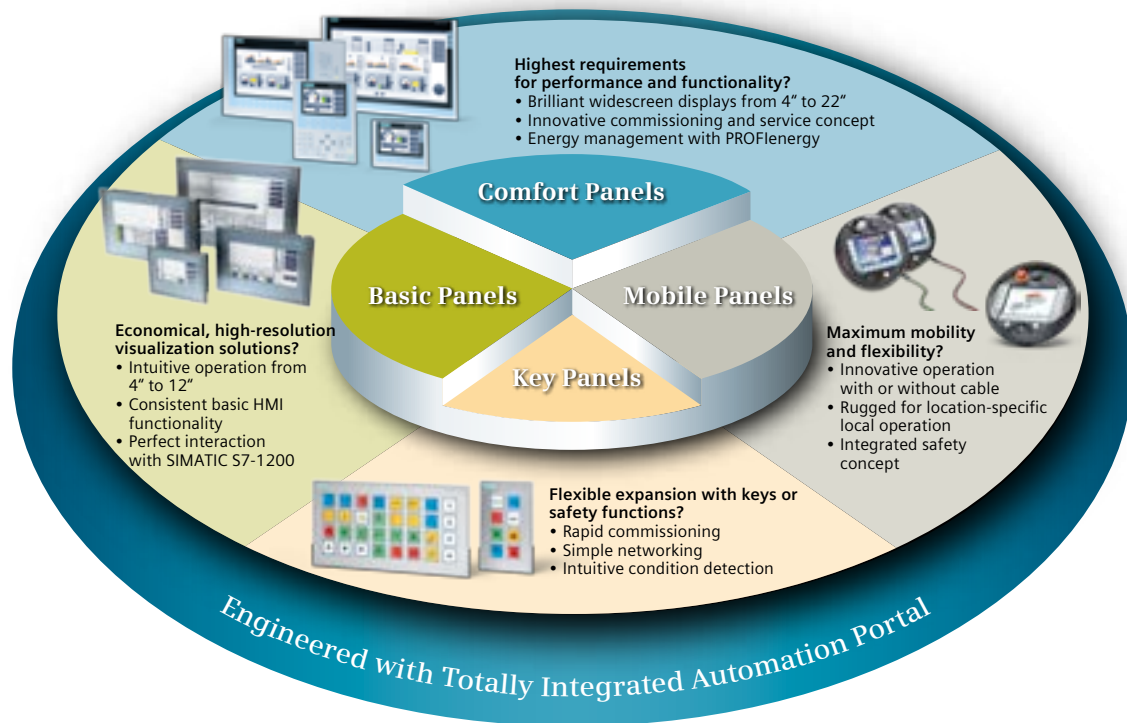
Siemens offers an innovative engineering framework with the Totally Integrated Automation Portal (TIA Portal) that helps you minimize engineering work, time, and costs. Integrated engineering of the controller, HMI, and drive permits significant savings in planning, commissioning, operation, and maintenance or expansion of automation systems – worldwide and in all industries.

Totally
Integrated
Automation –
at a glance!



Find out more:
www.siemens.com/tia-portal

TIA Portal



SIMATIC HMI panels

First choice for efficient operator control and monitoring

SIMATIC HMI Panels have been successfully used in many different applications and industries for a number of years now. The innovative device families are the first choice thanks to

- Efficient engineering
- Integrated functionality
- Long-term value preservation

Efficient engineering

You can intuitively configure SIMATIC HMI Panels with the SIMATIC WinCC visualization software in the TIA Portal and obtain further advantages from the perfect interaction with STEP 7 and the SIMATIC Controllers, such as:

- Time saving by avoiding multiple entries
- More safety due to maximum data consistency.

Integrated functionality

SIMATIC HMI Panels have identical functionality within one device family and scalable software. Your advantages are as follows:

- For your application, you only have to choose the optimum display size and operation via touchscreen and/or keys.
- You start with a small solution and flexibly expand it at any time.
- Via the innovative graphical user interface, you can use intuitive operator control and monitoring with completely new possibilities.

Long-term value preservation

Projects that have been created with SIMATIC HMI can be simply migrated directly to the successor product. After phase-out of a model series, we support you with long-term availability of spares and accessories to protect your investment.

TIA Selection Tool – quickly find the right device

SIMATIC HMI is available in various performance classes and with different functionalities. The TIA Selection Tool supports you with selection and offers you a wizard with which you can quickly find the right device. To order, you can export your configuration direct to the cart of the Industry Mall or the CA 01:

www.siemens.com/tia-selection-tool

Innovative HMI widescreen devices:

You can order our innovative HMI devices with the standardized front design with widescreen displays as an Industrial Flat Panel, Industrial Thin Client, as Basic and Comfort Panel or Panel PC. Find out more:

www.siemens.com/simatic-hmi-widescreen

Our HMI range in practice

Solutions with SIMATIC HMI are in use in many industries and applications the world over. See our HMI range for yourself in practice:

www.siemens.de/hmi-referenzen

Find out more:

www.siemens.com/hmi

HMI Panels

SIMATIC HMI Basic Panels

2nd generation – for economical, high-resolution visualization solutions



SIMATIC HMI Basic Panels 2nd Generation are optimized for economical implementation of simple HMI applications in a plant-floor environment. Basic equipment and functionality and an especially attractive price make them perfect entry-level devices, which also offer excellent visualization and operation. They impress with:

- Widescreen displays from 4" to 12"
- Integrated HMI basic functionality
- Perfect interaction with SIMATIC S7-1200

Clear display and operator interface with **widescreen displays from 4" to 12"**

High-resolution visualization with color depth of **64,000 colors**

Use of existing **styles** at the press of a button

Energy-saving LED backlighting (100 % dimmable)

Innovative graphical touch user interface with additional freely configurable buttons



Uniform widescreen fronts

such as Panel PCs and Comfort Panels for installation compatibility with all machines and plants

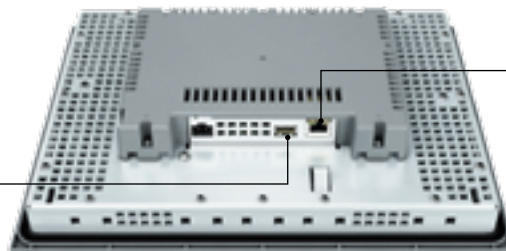
All important **HMI basic functions onboard**, e.g.:

- Configuration of different displays, alarms, recipes, archives, curve display
- Reading and setting variables
- User administration
- Language switchover

Service-friendly, **modular device design**

Upright installation also possible for portrait-format display, for optimum use of the space in the plant or for special machine designs

Integrated USB interface for the **simple archiving on USB stick** and **connection of keyboard, mouse, or barcode scanner**



Consistently with PROFINET interface, alternatively PROFIBUS with 7" and 12", for low-cost connection of distributed field devices or for coupling, for example to SIMATIC S7-1200

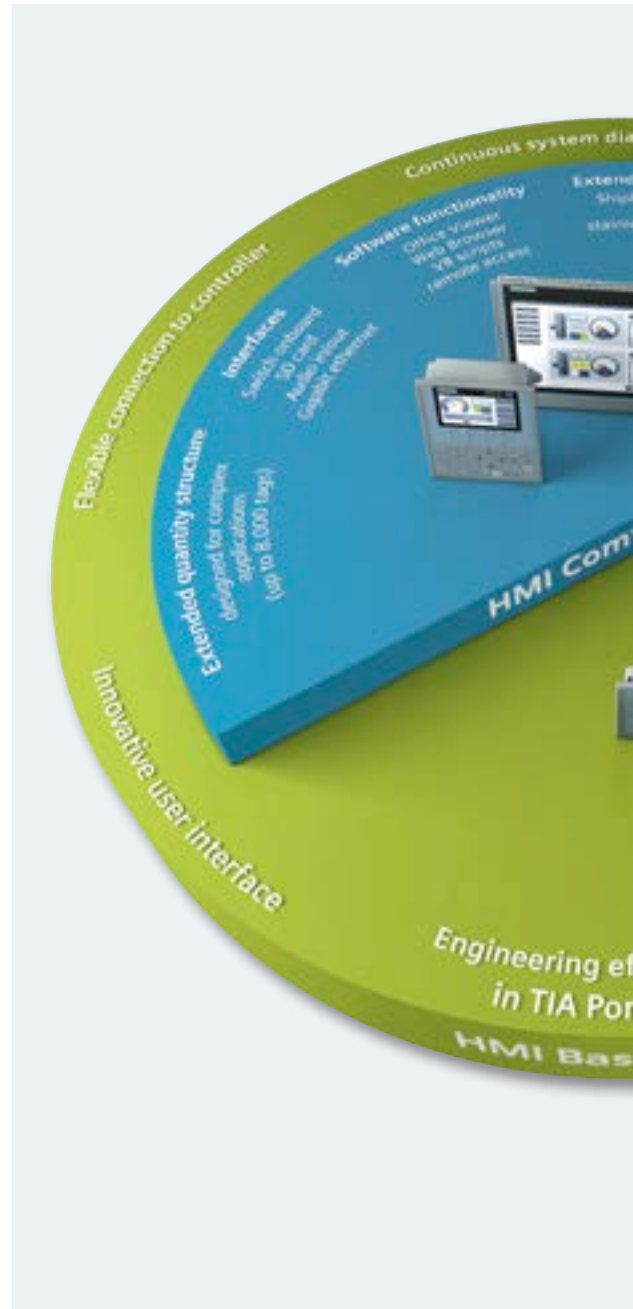
Find out more:

www.siemens.com/basic-panels

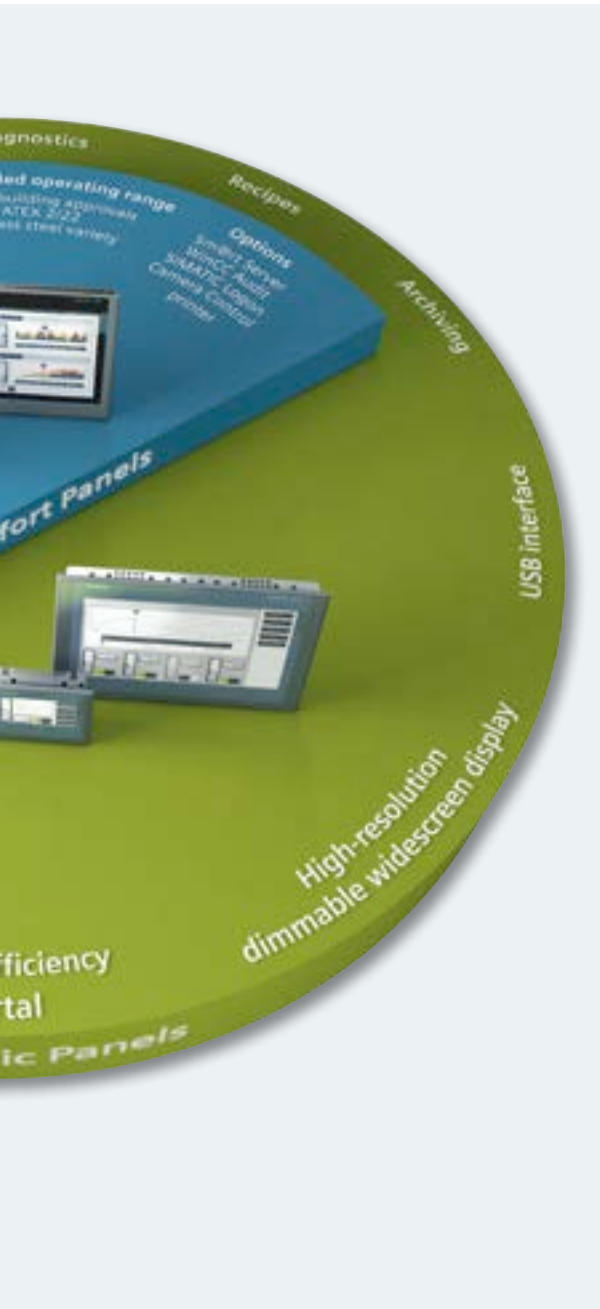
Basic
Panels

Differentiation of the hardware

Hardware	SIMATIC HMI Basic Panels	SIMATIC HMI Comfort Panels
Quantity		
Memory	10 MB	24 MB
Tags	800*	4,000
Recipes	256 KB	2 MB (expandable)
Online languages	10	32
Process interfaces		
	1x PROFINET or 1x PROFIBUS	1x PROFINET (switch) and 1x PROFIBUS
	Basic PROFINET services	PROFINET services IO/IRT/MRP
Other interfaces		
	1x USB host	2x USB host
		1x USB device
		2x SD card
		Audio in/out
Sizes and design		
Sizes	4" – 12"	4" – 22"
Design	Plastic frame	Aluminum frame
		SIMATIC front concept
Display		
MTBF	20,000 h	80,000 h
Colors	64k	16 mil.
Wide viewing angle	–	•
PROFIenergy	•	•
Operation mode		
	Key touch	Touch or key
		Direct keys
Certificates		
	CE	CE
	UL	UL
		ATEX
		FM class 1 Div. 2
		Marine



Differentiation of the software



SIMATIC HMI Basic Panels	SIMATIC HMI Comfort Panels	Software
		Viewer/multimedia
Buzzer	Media player	
	Office viewer	
	PDF viewer	
	Web server	
	Web browser	
		Archiving
USB	SD card / USB / network	Medium
2	50	Archives
10	2,000	Tags
txt	txt, csv, rdb	File format
		Miscellaneous
	Scripting (Visual Basic)	
	Connectivity (OPC UA)	
	f(x) Trend view	
	Automatic backup	
	USB transfer	
	Variants (INOX, Pro)	
		Options
	Sm@rt server	
	Audit trail	
	SIMATIC logon	
	Printers	
	SIMATIC apps	
	Camera control	

SIMATIC HMI Comfort Panels

For the highest performance and functionality requirements



SIMATIC HMI Comfort Panels are designed for implementation of powerful HMI applications in a plant-floor environment. High performance, functionality and integrated interface offer greatest convenience in high-end applications. In addition to the basic functionality of the basic panels, they impress with:

- Brilliant **widescreen displays from 4" to 22"**
- **Integrated HMI high-end functionality**
- Energy management at the machine
- Maximum data protection in the event of a power failure

Robust aluminum die-cast housing with touchscreen and/or operating keys

Reliable **readability and operability** due to

- **High-resolution detailed display with 16 million colors**
- **Viewing angle by up to 170°**

Display of **complex operating displays:**

- **Individually adaptable** operating elements and graphics
- **Style editor for user's corporate design** at the press of a button

Full **transparency** on the machine for **reduction of energy consumption and costs** with

- **Preconfigured faceplates for energy monitoring**
- **PROFenergy** to make best use of pause times

PROFIBUS and PROFINET interface for low-cost connection of distributed field devices or couplings, e.g. to SIMATIC S7-1500



High performance, including for

- **Undelayed image generation** for curve display or
- **Fast access** to archives and recipes

Different viewers for displaying documents, tables, or Internet pages – **simple printing possible**

System diagnostics in interaction with SIMATIC Controller **can be read out without a programming device**

Monitoring of processes and machine conditions with the optional camera control or remote maintenance with **Sm@rtClient app**

Numerous **approvals and certifications** for use in all industries

System card permits **device replacement without a programmer**, SD card as **additional memory for user data**

Integrated USB interfaces for the **connection of USB I/Os**, such as, for example, printer, barcode scanner

As of 15" additionally with **gigabits PROFINET interface**

As of 7" additionally with **2-port Ethernet switch**

Find out more:

www.siemens.com/comfort-panels

Comfort Panels

Find out more:

siemens.com/hmi

SIMATIC
HMI Panels –
at a glance!



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