Siemens 6AV6545-0CC10-0AX0

TECHNICAL REFERENCE / verified product and interface data

Siemens 6AV6545-0CC10-0AX0 is a SIMATIC TP270 10-inch touch operator panel for machine visualization, alarm handling and operator input through a 10.4-inch STN color display.

01 Identity, display, processing and power

Complete identity	6AV6545-0CC10-0AX0
Product role	10.4-inch STN Touch Operator Panel
Supported family	SIMATIC HMI TP 270
Lifecycle position	End Product Lifecycle; no direct replacement identified

Engineering snapshot

Operator path
Touch input, project screens and PLC tags form the machine command chain.

Interface allocation
IF1A and IF1B are alternative serial paths; use only the documented selection.

Service continuity
Preserve the panel project, communication settings and CF-card data before replacement.

Display and power data

Product family	SIMATIC HMI TP 270
Display technology	STN color display
Screen diagonal	10.4 in
Color depth	256 colors
Display resolution	640 x 480 pixels
Operator input	Resistive touchscreen
Processor	32-bit RISC CPU
Operating system	Microsoft Windows CE
Configuration memory	2 MB
Rated supply	24 V DC
Supply range	20.4 to 28.8 V DC
Rated current	0.9 A
Typical power input	15 W

Evidence boundary

Technical basis	Siemens product data for 6AV6545-0CC10-0AX0 and SIMATIC HMI TP 270, OP 270, MP 270B Operating Instructions, 6AV6691-1DD01-0AB0, Edition 03/2004
Applicability	Exact-product identity, display, power, memory and engineering-software data apply to the TP270 10-inch order code; interface and installation values apply to the documented TP270 10 configuration.

02 Interfaces, installation and application

Engineering software	ProTool V6 SP3 or later; WinCC flexible Standard 2004 or later
Serial interfaces	2 x RS232; 1 x RS422; 1 x RS485
PLC interface selection	IF1A RS232 or IF1B RS422/485; not simultaneous
Removable storage	1 x CompactFlash card slot
USB interface	1 x USB; connected load max. 500 mA
Backlight MTBF	60,000 h at 25 deg C
Backup battery	Optional 3.6 V; minimum backup duration 3 years
Real-time clock	Hardware clock; battery-backed and synchronizable
Mounting panel thickness	2.5 to 6 mm
Permitted inclination	Up to +/-35 deg from vertical

Interface acceptance map

IF1A RS232	Use the project-assigned serial path; verify the interface selection, cable pinout, PLC node and baud rate.
IF1B RS422/485	Use only when the installed project and wiring assign IF1B; do not operate IF1A and IF1B simultaneously.
USB service port	Keep the connected load at or below 500 mA and use only a supported engineering or service workflow.
CompactFlash workflow	Archive the installed card content, recipes and service data before replacement or project transfer.

Application paths

Machine visualization and alarm operation

Display process values, alarm messages and operator screens defined by the installed HMI project.

Serial PLC operator station

Exchange project tags through the documented RS232, RS422, RS485, MPI or PROFIBUS path supported by the installed configuration.

Recipe and service-data handling

Use the CompactFlash slot for supported project, backup or recipe workflows defined by the engineering environment.

Installed-base TP270 maintenance

Restore an existing TP270 station only after matching the panel cutout, 24 V DC supply, interface allocation and saved project.

Installed-system meaning

The TP270 10 presents 256 colors at 640 x 480 pixels on its 10.4-inch STN display. A 32-bit RISC processor running Windows CE executes the configured visualization project, alarm functions and touch-based operator actions.

The panel uses a 24 V DC supply and provides two RS232 paths together with RS422 and RS485 capability. IF1A and IF1B are alternative communication interfaces rather than simultaneous ports; the selected PLC, MPI or PROFIBUS connection must match the saved project and installed wiring.

Two megabytes of configuration memory and a CompactFlash slot support the installed project and service data. Before replacement, retain the ProTool or WinCC flexible project, communication settings, CF-card content and clock information, then prove screen navigation, alarms, PLC data exchange and touch response after restoration.

03 Diagnostics, lifecycle and support

Panel does not start	Measure 24 V DC under load, inspect protection and wiring, then observe the loader or transfer dialog.
Blank or dim display	Separate power, backlight and project-loading causes; compare the startup sequence with the known-good baseline.
Touch position is wrong	Run the approved calibration and test the full active area before replacing the panel.
PLC values do not update	Check project driver, IF1A or IF1B selection, node address, cable pinout and PLC operating state.
Alarms differ from the machine	Compare the restored project, alarm text, PLC tags and time synchronization with the archived record.
Clock loses time	Check the optional 3.6 V backup battery and the approved clock-synchronization method.

Lifecycle position

Complete order identity	Siemens 6AV6545-0CC10-0AX0 is in End Product Lifecycle.
Replacement position	No direct replacement product is identified for the complete order code; migration requires independent hardware and project engineering review.
Support planning	Preserve the HMI project, panel image, PLC communication settings and installed interface allocation before planning a replacement.
Supply boundary	Apter Power availability is confirmed separately from the manufacturer lifecycle phase.

Verified related product references

Siemens 6AV2124-1GC01-0AX0	Related Siemens HMI reference; verify the complete installed order identity.
Siemens 6AV2124-0GC01-0AX0	Related Siemens HMI reference; verify the complete installed order identity.
Siemens 6AV6647-0AH11-3AX0	Related Siemens HMI reference; verify the complete installed order identity.
Siemens 6AV6648-0EC11-3AX0	Related Siemens HMI reference; verify the complete installed order identity.

Discuss the exact HMI project and installed interface with Apter Power.
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Evidence record

Delivered identity	Photograph and record the complete order code, serial data and visible revision markings.
Installed asset	Record the machine, panel, PLC station and drawing references for the operator station.
Saved configuration	Identify the archived project, engineering-software version, CF-card backup and restore date.
As-left interface	Record IF1A or IF1B selection, PLC address, communication result and supply voltage.
Release evidence	Retain touch-area test, screen and alarm proof, command checks, reviewer and release date.