APTER POWER
INDUSTRIAL AUTOMATION

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB 1SAP540710R0001-CP6407

Product Reference

ABB CP600 7-inch Industrial HMI Control Panel

DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ABB manufacturer sources. No product photograph is included.

Product / lookup identity	ABB 1SAP540710R0001-CP6407
Reference number	1SAP540710R0001
Document basis	Published ABB product records, PDFs, and manuals listed on page 3

Product page

https://www.apterpower.com/ABB/1sap540710r0001-cp6407

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Product role and published parameters

WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

ABB 1SAP540710R0001 CP6407 is a CP600 second-generation industrial HMI control panel with a 7-inch 800 x 480 color TFT display and resistive touchscreen. It presents PB610 application graphics and visualizes AC500 V3 web-server content so operators can view process information and interact with machine or plant controls. Two 10/100 Mbit Ethernet ports and one software-configurable RS-232/RS-422/RS-485 port exchange controller data, while two USB host ports and an SD-card slot support project transfer and media. Engineered with PB610 Panel Builder 600, it suits robust industrial operator stations and control-cabinet installations mounted in landscape or portrait orientation.

Published field	Manufacturer-published value or verified identity note
Display	7-inch TFT-LCD, 800 x 480, 65,536 colors
Touchscreen	Four-wire single-touch resistive
Processor / OS	ARM Cortex-A8 1 GHz / Linux RT
Memory	512 MB RAM; 4 GB flash
Ethernet	2 x 10/100 Mbit
Serial Interface	RS-232/RS-422/RS-485 software-configurable
USB / Storage	2 x USB 2.0 host; SD-card slot

System function and signal path

01	Displays PB610 HMI application graphics and visualizes AC500 V3 web-server content.
02	Provides local resistive-touch operator input.
03	Serial port communicates with a PLC or another controller and is software-configurable for RS-232, RS-422 or RS-485 signals.
04	Two 10/100 Mbit Ethernet ports provide network communication.

Applications, answers, and official sources

1. Industrial machine operator stations
2. Local process visualization and interaction
3. AC500 PLC visualization
4. Control-cabinet HMI installations

Frequently asked questions

What is the official order code for CP6407?	ABB identifies the CP6407 by order code 1SAP540710R0001.
What display and touchscreen does CP6407 use?	It uses a 7-inch 800 x 480 TFT-LCD with 65,536 colors and a four-wire single-touch resistive touchscreen.
What applications can the panel visualize?	ABB specifies CP6407 for PB610 applications and visualization of an AC500 V3 web server.
Which communication interfaces are available?	The panel has two 10/100 Mbit Ethernet ports and one software-configurable RS-232/RS-422/RS-485 serial port, plus two USB 2.0 host ports and an SD-card slot.
How is a PB610 project transferred to CP6407?	ABB documents transfer over an Ethernet connection from PB610 or by creating an update package and copying it to a USB flash drive.
What power supply does CP6407 require?	It is rated for 24 V DC and 0.35 A. The operating instruction gives a general 10-32 V DC range, narrowed to 18-32 V DC for applications requiring EN 61131-2 compliance for 10 ms voltage dips.

Official ABB sources

CP6407 official ABB product page	https://www.abb.com/global/en/products/1SAP540710R0001
Control Panel CP600 2nd Generation CP6407 Data Sheet	https://library.e.abb.com/public/345b594d11d048adadb38c92263337ab/CP6407_Data_Sheet_3ADR010471%2C%202%2C%20en_US_RevB.pdf
Control Panels CP600 2nd Generation Operating Instruction	https://library.e.abb.com/public/7a7e137f668f4ba68028e4fafbbb0f18/3ADR010470%2C%204%2C%20en_US.pdf
CP600 control panel platform official ABB page	https://new.abb.com/plc/control-panels
ABB Metallurgy - Upgrades for Electromagnetic Stirring and Braking Systems	https://library.e.abb.com/public/0c3d99e96d0240d4811208d9a2e7f897/Upgrades%20for%20electromagnetic%20stirrers%20and%20brakes.pdf