

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB P-HC-BRC-41000000

SPBRC410 / BRC410 / P-HC-BRC-41000000 Evidence-Bounded
Product Information Manual

ABB P-HC-BRC-41000000 P-HC-BRC-41000000 Bridge Controller with Ethernet

DOCUMENT SCOPE

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

Product / lookup identity	ABB P-HC-BRC-41000000
Reference number	SPBRC410
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/spbrc410>
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Workflow and system context

ABB P-HC-BRC-41000000 is the official order-style designation for the Ethernet-enabled BRC410 Harmony Rack bridge controller, also cataloged by ABB as SPBRC410. The controller executes continuous, sequential, batch, advanced, user-defined, and C-based control strategies with capacity for up to 30,000 function blocks.

01	System Inputs: Controller configuration, process I/O, peer-system data, and licensed Modbus TCP client/server data.
02	Processing: Executes up to 30,000 function blocks for continuous, sequential, batch, advanced, UDF, and C-based control.
03	Outputs: Control commands to compatible ABB I/O and configured system or Modbus peers.
04	Communications: Harmony Rack buses, SD/S800 integration, serial ports, 10/100 Ethernet, mini-USB service, and licensed Modbus TCP.
05	Boundary: Client, server, and point counts depend on exact firmware and license; Ethernet does not make the controller a generic network switch.

Published context and boundaries

01	Update ApterPower product ID 855774 at /ABB/spbrc410; do not create a second P-HC-BRC-41000000 page.
02	Retain SPBRC410, BRC410, and P-HC-BRC-41000000 as searchable exact aliases on one canonical record.
03	Confirm the physical P-HC-BRC-41000000 nameplate, firmware, Ethernet license, PBA, and redundant-controller pairing before field replacement.

Verification and release checks

01	Back up the complete controller database, firmware, tuning, UDF/C code, license record, and redundancy settings.
02	Verify P-HC-BRC-41000000 on the physical nameplate and preserve the existing ApterPower ID and canonical.
03	Confirm the installed PBA, rack slot, power, Ethernet topology, serial wiring, addressing, and licenses.
04	Do not exceed ABB's documented Modbus TCP server, client, or licensed point limits.
05	Use an approved outage, failover, download, rollback, and commissioning plan.
06	Test I/O, peer data, Modbus data, alarms, time synchronization, diagnostics, and redundancy transfer before release.

Identity and release controls

Verification Status	VERIFIED_EXACT_ORDER_CODE_TO_EXISTING_BRC410_IDENTITY
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Official ABB sources

ABB Harmony Gateway Software 6.0 Release Notes	https://library.e.abb.com/public/4e743aaa3a8e44af8bb8f5a3b041cd1e/2VAA002585-600_B_en_S__Engineering__Harmony_Gateway_Software_6.0_Release_Notes.pdf
ABB Ability Symphony Plus Product Catalog Rev F	https://library.e.abb.com/public/6ea6dcfd4a048caa70975de2dea4b27/2VAA005340%20en%20F%20Symphony%20Plus%20Product%20Catalog.pdf
ABB Symphony Plus HR Series Control and I/O brochure	https://library.e.abb.com/public/18f414cba5434d4591603ac425cbd7ea/2VAA005093_E_en_HR_Series_control_and_IO_Print.pdf
ABB Symphony evolution planning considerations Part B	https://library.e.abb.com/public/5aec442aca624ac5820915db549c78fc/3BUS095560_en_-_Symphony_Roadmap_Part_B.pdf