

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB SPNPM22

Product Reference

ABB SPNPM22 SPNPM22 network processing module

DOCUMENT SCOPE

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

Product / lookup identity	ABB SPNPM22
Reference number	SPNPM22
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/spnpm22>
Apter Power contact

sales13@apterpower.com | +86 180 3023 5313

Product role and published parameters

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

ABB SPNPM22 is a Symphony Plus HR Series network processing module. The module holds the Harmony control unit database and directs communication between modules residing on Controlway and the paired SPNIS21. System context: ABB SPNPM22 SPNPM22 network processing module.

Published field	Manufacturer-published value or verified identity note
Product type	Cnet-to-Controlway network processing module
Companion interface	SPNIS21
Memory	8 MB DRAM; 512 KB NVRAM; 2 MB flash ROM
Power	+5 VDC at 2 A; 10 W typical
Diagnostic port	1 mini-USB
Communication rates	Controlway 1 Mbaud; Modulebus 83.3 kbaud
Ambient temperature	0 to 70 degrees C (32 to 158 degrees F)

System function and signal path

01	System Inputs: Communication data from Harmony modules on Controlway and from the paired SPNIS21/Cnet interface.
02	Processing: Maintains the HCU database and directs communication between Controlway modules and SPNIS21.
03	Outputs: Processed network communication toward Cnet through SPNIS21 and toward Harmony modules over Controlway.
04	Communications: Controlway at 1 Mbaud, Modulebus at 83.3 kbaud, plus one mini-USB diagnostic port.

Applications, answers, and official sources

1 Cnet-to-Controlway gateway: Directs communication between the Cnet-facing SPNIS21 and modules residing on Controlway.

2 Harmony control-unit database handling: Holds the HCU database used by the communication interface.

3 PCU communication upgrade: Supports ABB Symphony Plus rack communication modernization with the matched SPNIS21 module.

4 Engineered IN-generation migration: Provides the SP-family replacement path for older grey IN communication hardware after full compatibility review.

Frequently asked questions

What is ABB SPNPM22?	It is a Symphony Plus HR Series network processing module and the gateway between Cnet and Controlway.
What is the main function of SPNPM22?	It holds the HCU database and directs communication between Controlway modules and SPNIS21.
Which module is paired with SPNPM22?	SPNIS21.
What memory is documented?	8 MB DRAM, 512 KB NVRAM, and 2 MB flash ROM.
What power does SPNPM22 require?	+5 VDC at 2 A, 10 W typical.
Which diagnostic port is provided?	One mini-USB diagnostic port.

Official ABB sources

ABB Ability Symphony Plus Product Catalog Rev G	https://library.e.abb.com/public/67f6b20f64d0443da36258e62a597791/2VAA005340%20en%20G%20Symphony%20Plus%20Product%20Catalog.pdf
ABB Harmony lifecycle presentation, February 2017	https://library.e.abb.com/public/68e694fd1f5743ba949fbae1859ee3ac/02%20ABB%20Users%20Group%20Anchorage%20Harmony.pdf
ABB IndustrialIT System 800xA Harmony Overview	https://library.e.abb.com/public/02624f56a7220a5ec1257647007117ee/3BUS094398_L_H_en_System_800xA_5.0_Harmony_Overview_lores.pdf
ABB Care Canada communication upgrades	https://new.abb.com/process-automation/energy-industries/service/abb-care-loyalty-offers/canada