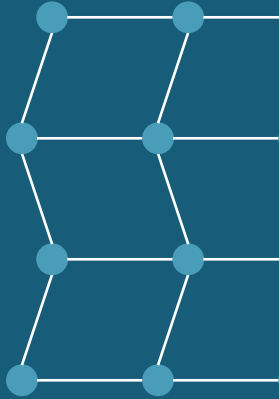


MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB SPNIS21

Product Reference

ABB SPNIS21 SPNIS21 network interface module



DOCUMENT SCOPE

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

Product / lookup identity	ABB SPNIS21
Reference number	SPNIS21
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/spnis21>
Apter Power contact

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Product role and published parameters

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

ABB SPNIS21 is a Symphony Plus HR Series network interface module. It provides the intelligent link between a node and Cnet so that nodes on the control network can communicate. System context: ABB SPNIS21 SPNIS21 network interface module.

Published field	Manufacturer-published value or verified identity note
Product type	Cnet network interface module
Companion processor	SPNPM22
Power	+5 VDC at 825 mA; 4.1 W typical
Cnet communication rates	10 MHz or 2 MHz
System capability	Over 62,000 Cnet nodes in the system; 250 Cnet-to-Cnet interface nodes; 250 nodes on one network in the documented Cnet-to-HCU / Cnet-to-computer combination
Ambient temperature	0 to 70 degrees C (32 to 158 degrees F)
Origin / HS / dimensions / weight	HOLD – exact ABB evidence not found

System function and signal path

01	System Inputs: Cnet node traffic at the configured 10 MHz or 2 MHz Cnet rate.
02	Processing: Provides the intelligent Cnet-facing interface between a node and the control network.
03	Outputs: Network traffic to or from the paired communication-interface node and SPNPM22.
04	Communications: Cnet; works in conjunction with SPNPM22 for Cnet-to-Controlway/HCU communication.

Applications, answers, and official sources

1 Cnet-to-HCU node communication: Provides the Cnet-facing front end for a Harmony control-unit communication interface with SPNPM22.

2 Cnet-to-computer interface kits: Serves as the Cnet interface element in ABB kits such as SPIC800 when the documented companion modules and terminations are present.

3 Local Cnet bridging kits: Provides Cnet interface modules in the documented SPIIL02-L local Cnet interface package.

4 Engineered grey-IN modernization: Supports ABB-planned migration from older grey IN communication hardware after exact project, revision, and compatibility review.

Frequently asked questions

What is ABB SPNIS21?	It is the Symphony Plus HR Series Cnet network interface module.
What does SPNIS21 do?	It is the intelligent front end between a node and Cnet, allowing network nodes to communicate.
Which module works with SPNIS21?	ABB explicitly states that it works with SPNPM22.
Which Cnet rates are documented?	10 MHz or 2 MHz.
What power does SPNIS21 require?	+5 VDC at 825 mA, 4.1 W typical.
What ambient range is documented?	0 to 70 degrees C (32 to 158 degrees F).

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%20Anchor%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