APTER POWER
INDUSTRIAL AUTOMATION

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB INNIS21

INNIS21 INFI-NET Node Interface and Cutover Guide

ABB INNIS21 INFI-NET 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 INNIS21
Reference number	INNIS21
Document basis	Published ABB product records, PDFs, and manuals listed on page 3

Product page

https://www.apterpower.com/ABB/ABB-Bailey-Infi-90-and-Net-90/Infi-90/innis21

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INFI-NET media, NTCL01 termination, INNIS21 interface, INNPM22 companion, and node data path

ABB INNIS21 is an INFI-NET network interface module for Bailey INFI 90 and Harmony Rack communication architectures. ABB documents INNIS21 with INNPM22 in the newer process-control-unit communication generation.

01	System Inputs: INFI-NET network frames and node communication data from the associated processing module.
02	Processing: Provides the network-interface function for the process control unit; companion processing is associated with INNPM22 in ABB's documented architecture.
03	Outputs: Network traffic toward INFI-NET and node-side communication toward the companion processing module.
04	Communications: INFI-NET network interface through project-specific NTCL01 and twinaxial/coaxial media context.
05	Boundary: INNIS21 is not a controller, I/O module, Ethernet switch, or standalone communication gateway. Exact topology and rates remain project/document specific.

Network-interface scope that preserves INNIS21 and INNPM22 as separate companion identities

01	Verification Status: VERIFIED_EXACT_MODEL_FUNCTION_AND_PRIMARY_COMPANIONS
02	Exact Mapping: ABB identifies INNIS21 as the network interface in an INFI-NET process control unit and documents its use with INNPM22. ABB states that the newer communication modules are form, fit, and functional replacements for predecessor generations.
03	Lifecycle Status: HOLD - ABB material historically listed INNIS21 as active and a 2025 OEM repair promotion includes YINNIS21, but no exact current formal INNIS21 lifecycle phase was found

Model roles, firmware, media, shields, termination, node address, redundancy, alarms, and peer traffic

01	Back up node configuration, addresses, firmware records, network maps, and redundancy settings before service.
02	Confirm INNIS21 identity and the exact companion processor; do not interchange INNIS and INNPM roles.
03	Verify NTCL01, cable type, connectors, shields, termination, node address, and network medium from approved drawings.
04	Coordinate removal with the control-room and network owner because a communication interruption can affect multiple controllers and operator functions.
05	Follow ABB and site ESD, isolation, insertion/removal, fiber/copper handling, and commissioning procedures as applicable.
06	After replacement, verify node visibility, exception reports, peer data, alarms, redundancy transfer, and stable network diagnostics.

Identity and release controls

Verification Status	VERIFIED_EXACT_MODEL_FUNCTION_AND_PRIMARY_COMPANIONS

Official ABB sources

ABB System 800xA Harmony Overview	https://library.e.abb.com/public/02624f56a7220a5ec1257647007117ee/3BUS094398_L_H_en_System_800xA_5.0_Harmony_Overview_lores.pdf
ABB Symphony Plus Overview	https://library.e.abb.com/public/6accbfcb76dbaee885257a8c00660057/3BUS095666_Symphony_Plus_Overview.pdf
ABB Symphony evolution planning considerations Part B	https://library.e.abb.com/public/5aec442aca624ac5820915db549c78fc/3BUS095560_en_-_Symphony_Roadmap_Part_B.pdf
ABB INFI 90 evolution planning considerations Part A	https://library.e.abb.com/public/439dd66238ae5509852579c90051e404/3BUS095560_en_-_Evolution_planning_considerations_INFI_90_r1_Part_A.pdf
ABB Kickstart 2025 OEM repair promotion	https://library.e.abb.com/public/0dbf939ea74d4b07b739fe0d57c4d715/Kickstart%202025%204HZG000076%20Rev%20A.pdf