APTER POWER PRODUCT REFERENCE MANUAL

FCNA-01

FCNA-01 ControlNet Drive Adapter Module

ENGINEERING LENS	DETERMINISTIC DRIVE COMMUNICATION AND REDUNDANT MEDIA
SYSTEM	ABB drives with ControlNet
SOURCE CONTROL	Manufacturer-published information only

This original Apter Power manual explains deterministic drive communication and redundant media using only the manufacturer source named inside the document.

Manufacturer	ABB
Prepared by	Apter Power
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1. Product Identity and System Role

FCNA-01 is an ABB F-series ControlNet adapter module used to integrate supported ABB drives into a ControlNet network. It provides high-speed deterministic communication for drive control, reference values, status, diagnostics, and parameter access through the configured fieldbus profile.

The module transfers cyclic drive command and feedback data between a ControlNet scanner and the drive, while supporting scheduled and unscheduled network communication and single- or dual-cable ControlNet topology through its BNC connections.

Model Configuration

Field	Verified information
Complete model	FCNA-01
Manufacturer	ABB
Product description	FCNA-01 ControlNet Drive Adapter Module
System	ABB drives with ControlNet

Product-Specific Design Focus

deterministic drive communication and redundant media

2. Technical Specifications and Evidence Boundary

Only values supported by the named ABB source are stated. Where the complete ordering code is absent from public data, the field is explicitly marked for verification.

Parameter	Verified value
Manufacturer	ABB
Product type	ControlNet adapter module
Network data rate	5 Mbit/s
Network connection	Two BNC connectors; single or redundant media
Node setting	Rotary switches on the module
Profile	ODVA AC/DC drive profile is the documented default

Evidence Note

Use the complete FCNA-01 identity. ABB maintains a current FCNA-01 product page and current quick-start documentation. Confirm drive-specific compatibility and order availability before selection. Values not published in the cited ABB source are intentionally not inferred.

3. Functions, Applications and Matched Components

Core Functions

- The module transfers cyclic drive command and feedback data between a ControlNet scanner and the drive, while supporting scheduled and unscheduled network communication and single- or dual-cable ControlNet topology through its BNC connections.
- Preserves the documented role within ABB drives with ControlNet.
- Supports model-specific engineering review without substituting unverified third-party data.

Application Areas

Application	System role
ABB drives with ControlNet	Maintains the documented deterministic drive communication and redundant media role in a correctly matched installation.
Process and machine automation	Supports the control, communication, power, safety, measurement, or protection duty stated in the official source for this exact or verified family identity.
Lifecycle-controlled maintenance	Requires complete-code, nameplate, host-system, and project verification before replacement or recommissioning.

Compatible Components

- ABB ACS355, ACS480, ACS580, ACS880 and DCS880 drives listed by ABB
- ControlNet RG-6 coaxial media, taps, terminators, repeaters, and scanner engineered for the network
- ABB drive firmware and option slot supported by the FCNA-01 manual

Lifecycle Status

ABB maintains a current FCNA-01 product page and current quick-start documentation. Confirm drive-specific compatibility and order availability before selection.

4. Installation Precautions

- Match every character of FCNA-01 to the physical nameplate before work.
- Use the exact ABB manual, wiring drawing, and safety instructions for the installed revision.
- De-energize and apply the required lockout, discharge, ESD, and stored-energy controls before removal.
- Back up firmware, parameters, controller project, calibration, and network settings where applicable.
- Verify supply, signal type, polarity, grounding, shielding, connector pinout, load, and environmental limits.
- Commission with the manufacturer test procedure and record results before returning equipment to service.

DECISION GATE - Verify before installation
Use the complete FCNA-01 identity. ABB maintains a current FCNA-01 product page and current quick-start documentation. Confirm drive-specific compatibility and order availability before selection. Values not published in the cited ABB source are intentionally not inferred.
Controlling records: physical nameplate, current ABB document, and host-system drawings.

5. Official Source and Use Notice

Official manufacturer source

ABB FCNA-01 ControlNet adapter module product page, user manual 3AUA0000141650, and quick guide 3AXD50000158201.

https://www.abb.com/global/en/areas/motion/drives/connectivity/fieldbus/controlnet/fcna-01

Apter Power product page

https://www.apterpower.com/ABB/fcna-01

Use Notice

This is an original Apter Power model-specific reference prepared from the ABB source named above. It is not a ABB publication and does not replace the original data sheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and a model-specific quotation, visit www.apterpower.com or contact sales13@apterpower.com.