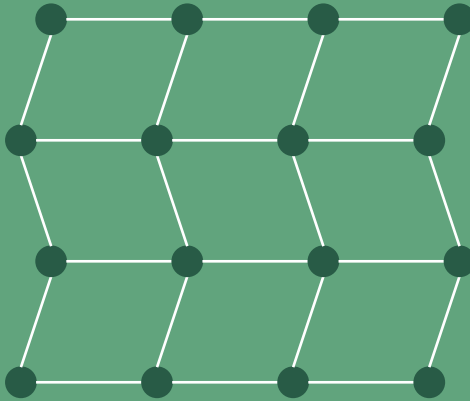


MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB SDCS-COM-82

DDCS Optical Network Commissioning Guide

ABB DCS800 DDCS Optical Interface Board



DOCUMENT SCOPE

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

Product / lookup identity	ABB SDCS-COM-82
Reference number	SDCS-COM-82
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/sdcs-com-82>
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DDCS channel planning path

ABB SDCS-COM-82 is an SDCS-COM-8 optical DDCS communication interface-board variant for ABB DCS800 DC drive systems. It exchanges drive signals and parameters as DDCS data sets through four optical transmit/receive channels, with a documented maximum of 4 Mb per channel.

01	Provides DDCS optical communication for a DCS800 drive.
02	Four optical Tx/Rx channels; ABB states maximum data transmission speed of 4 Mb per channel.
03	Channel 0: overriding control path for the SDCS-COM-8 family; on SDCS-COM-82 it is specifically for N-type fieldbus adapters and uses a 5 Mb optical component.
04	Channel 1: I/O extension path for AIMA-01 and FEA-01.
05	Channel 2: master-follower link between drives.

Channel roles and system context

01	No separate ABB sales order code was found for this board.
02	Country of origin, tariff code, dimensions, weight and stand-alone supply voltage were not published in the cited ABB sources.
03	The cited Classic lifecycle statement applies to DCS800-S power converter modules, not specifically to SDCS-COM-82.

Optical-link commissioning checks

01	Only qualified electricians may install or maintain the DCS800 drive; isolate power and verify voltage is close to zero before work.
02	Do not work on control cables while the drive or externally supplied control circuits are powered.
03	The printed circuit board is electrostatic-discharge sensitive; wear a grounding wrist strap and avoid unnecessary contact.
04	Handle optical cables by the connector, not the cable; do not touch fiber ends with bare hands and keep at least the 35 mm minimum bend radius.
05	Connect only channels with matching optical hardware components, as ABB explicitly requires compatible 5 Mb/10 Mb optical components.
06	Ground the drive and adjacent equipment according to ABB instructions and applicable regulations.

Identity and release controls

Manufacturer	ABB
Official Type Designation	SDCS-COM-82
Recommended Public Title	ABB SDCS-COM-82 DCS800 DDCS Optical Interface Board

Official ABB sources

DCS800 Hardware Manual	https://library.e.abb.com/public/647f732ff4684400a8bc2f063d44d3a8/3ADW000194R0811%20DCS800%20Hardware%20Manual%20us%20h.pdf
DCS800 Firmware Manual	https://library.e.abb.com/public/4deddc9fcac946ff90645717f7f19e79/3ADW000193R0801%20DCS800%20Firmware%20Manual%20e%20h.pdf
Product Life Cycle Statement – DCS800 Power Converter Modules	https://library.e.abb.com/public/1dd8cbd7791c49ccac1b9e672f08210d/LC_Statement_DCS800_revC.pdf
ABB DCS800 Technical Catalog	https://library.e.abb.com/public/e9e4650fae26496b848993c74c63f626/DCS800-PHTC01U-EN_REVO.pdf