

RDCO-02C 3ABD64606956

RDCO-02C DDCS Communication Module Kit

ABB RDCO-02C 3ABD64606956 is a DDCS communication adapter kit for an ACS800 RMIO control board. It adds four optical DDCS channels for host, I/O extension, master-follower and PC-tool communication roles.

BRAND	ABB	FAMILY	ABB ACS800 RMIO DDCS communication system
PART	RDCO-02C 3ABD64606956	SYSTEM ROLE	Adds four optical DDCS communication channels to the RMIO board

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RDCO-02C
3ABD64606956

MANUFACTURER SOURCE RECORD

ACS800 Optional Module Catalogue
ABB 3ABD00018063, Version B, 2009-04-28

Product Overview

SYSTEM FUNCTION

ABB RDCO-02C 3ABD64606956 is a DDCS communication adapter kit for an ACS800 RMIO control board. It adds four optical DDCS channels for host, I/O extension, master-follower and PC-tool communication roles.

FUNCTION 1

Adds four optical DDCS communication channels to the RMIO board

FUNCTION 2

Assigns separate host, I/O-extension, master-follower and PC-tool roles

FUNCTION 3

Provides 5 MBd operation on CH0 and CH1

FUNCTION 4

Provides 10 MBd operation on CH2 and CH3

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	ABB ACS800 RMIO DDCS communication system
Primary interface	Adds four optical DDCS communication channels to the RMIO board
Engineering context	The adapter is fitted to the RMIO board and connects the drive to its approved host, I/O extension, master-follower or PC-tool optical links. Commissioning verifies option identity, channel assignment, fiber type, link speed and diagnostics at both ends.
Commissioning duty	Verify DDCS diagnostics and each required communication role before drive enable.

TECHNICAL NOTE

Install RDCO-02C only on the documented RMIO control board and record each CH0-CH3 optical-fiber role before removal. Match the optical component type and transmission speed at both ends, protect fiber ends from contamination and verify every DDCS channel after controlled power-up.

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Country of origin	Sweden	Option code	+L509
HS code	8537101190	Optical channels	CH0 to CH3
ABB product ID	3ABD64606956	CH0 optical speed	5 MBd
Type designation	RDCO-02C	CH1 optical speed	5 MBd
Product description	SP KIT, DDCS ADAPTER	CH2 optical speed	10 MBd

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
ZCU-14	3AXD50000182992 control unit	View ZCU-14 page
ZCU-14	3AXD50000005164 control unit	View ZCU-14 page
SNAT7600	drive interface board	View SNAT7600 page
PPC381	AE 3BHE014070R0001 control board	View PPC381 page
3BHE009319R0001	UNITROL assembly	View 3BHE009319R0001 page
3BHE021083R0101	power electronics board	View 3BHE021083R0101 page
YPC111B	optical distribution board	View YPC111B page
ZINT-592	inverter main circuit board	View ZINT-592 page

ENGINEERING BOUNDARY

Confirm RDCO-02C, 3ABD64606956, +L509, the installed ACS800 and RMIO execution, CH0-CH3 role and speed, fiber medium and connectors, link topology, grounding, drive firmware and configuration, and controlled DDCS diagnostic results before commissioning.

Applications and Precautions

Common Applications

ACS800 host-controller link

Uses CH0 for the documented overriding-controller or fieldbus-adapter path.

Master-follower drive coordination

Uses CH2 for the documented optical drive-to-drive relationship.

Distributed I/O extension

Uses CH1 for the approved ABB I/O-extension communication path.

Drive commissioning with PC tools

Uses CH3 for the approved engineering and diagnostic connection.

Product Precautions

- 1

Confirm RDCO-02C, ABB product ID 3ABD64606956 and option code +L509.
- 2

Isolate the ACS800 control supply and observe drive discharge procedures.
- 3

Use ESD controls while handling the adapter and exposed RMIO connectors.
- 4

Record the installed CH0, CH1, CH2 and CH3 link destinations before removal.
- 5

Cap and protect every optical connector from dust, impact and sharp cable bends.
- 6

Match the optical component and allowed transmission speed at both fiber ends.
- 7

Refit the adapter on the documented RMIO position and restore the link topology.
- 8

Verify DDCS diagnostics and each required communication role before drive enable.

IMPORTANT NOTICE

Confirm RDCO-02C, 3ABD64606956, +L509, the installed ACS800 and RMIO execution, CH0-CH3 role and speed, fiber medium and connectors, link topology, grounding, drive firmware and configuration, and controlled DDCS diagnostic results before commissioning.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	RDCO-02C 3ABD64606956
Configuration	Refit the adapter on the documented RMIO position and restore the link topology.
Functional release	Verify DDCS diagnostics and each required communication role before drive enable.

Engineer FAQ

Q1 What identity details must be checked before RDCO-02C 3ABD64606956 is removed?

Confirm RDCO-02C, 3ABD64606956, +L509, the installed ACS800 and RMIO execution, CH0-CH3 role and speed, fiber medium and connectors, link topology, grounding, drive firmware and configuration, and controlled DDCS diagnostic results before commissioning.

Q3 Which ABB ACS800 RMIO DDCS communication system interfaces must be recorded for RDCO-02C 3ABD64606956?

The adapter is fitted to the RMIO board and connects the drive to its approved host, I/O extension, master-follower or PC-tool optical links. Commissioning verifies option identity, channel assignment, fiber type, link speed and diagnostics at both ends.

Q5 How should the installed configuration be restored after fitting RDCO-02C 3ABD64606956?

Match the optical component and allowed transmission speed at both fiber ends.

Q7 What replacement records should be retained for RDCO-02C 3ABD64606956?

Confirm RDCO-02C, ABB product ID 3ABD64606956 and option code +L509. Cap and protect every optical connector from dust, impact and sharp cable bends.

Q2 How does RDCO-02C 3ABD64606956 perform its documented rdco-02c ddc communication module kit role?

Adds four optical DDCS communication channels to the RMIO board. It adds four optical DDCS channels for host, I/O extension, master-follower and PC-tool communication roles.

Q4 What isolation and ESD controls apply while handling RDCO-02C 3ABD64606956?

Isolate the ACS800 control supply and observe drive discharge procedures. Use ESD controls while handling the adapter and exposed RMIO connectors.

Q6 Which diagnostic evidence confirms that RDCO-02C 3ABD64606956 is recognized correctly?

Refit the adapter on the documented RMIO position and restore the link topology.

Q8 What final acceptance test is required before RDCO-02C 3ABD64606956 returns to service?

Verify DDCS diagnostics and each required communication role before drive enable.

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