

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
System family	ABB ACS800 RMIO DDCS communication system
Part number	RDCO-02C 3ABD64606956
Product role	Adds four optical DDCS communication channels to the RMIO board
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING 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.

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RDCO-02C
3ABD64606956

Technical Specifications

Technical values below are limited to the named ABB product record and directly applicable manufacturer documentation.

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

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	ABB ACS800 RMIO DDCS communication system
Primary system role	Adds four optical DDCS communication channels to the RMIO board
Connection boundary	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.
Controlled acceptance duty	ACS800 host-controller link

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.

Pre-Installation Checks

- 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.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	RDCO-02C 3ABD64606956
Installed host	ABB ACS800 RMIO DDCS communication system
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

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

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	ABB ACS800 RMIO DDCS communication system
2	8537101190
3	ACS800 host-controller link
4	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.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	ABB ACS800 RMIO DDCS communication system
Interface role	Adds four optical DDCS communication channels to the RMIO board
Field / power 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 evidence	Verify DDCS diagnostics and each required communication role before drive enable.

Installation and Connection Checks

1Cap and protect every optical connector from dust, impact and sharp cable bends.

2Match the optical component and allowed transmission speed at both fiber ends.

3Refit the adapter on the documented RMIO position and restore the link topology.

4Verify DDCS diagnostics and each required communication role before drive enable.

MANUFACTURER SOURCE RECORD

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

Applications and Engineering Context

ACS800 host-controller link

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

Distributed I/O extension

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

Master-follower drive coordination

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

Drive commissioning with PC tools

Uses CH3 for the approved engineering and diagnostic connection.

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.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	RDCO-02C 3ABD64606956 recorded
Host / carrier	ABB ACS800 RMIO DDCS communication system
Physical interface	Adds four optical DDCS communication channels to the RMIO board
Configuration	Refit the adapter on the documented RMIO position and restore the link topology.
Functional proof	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.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	RDCO-02C 3ABD64606956
Approved role	ACS800 host-controller link
Final validation	Verify DDCS diagnostics and each required communication role before drive enable.

Engineering 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.

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

MANUFACTURER SOURCE RECORD

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