

NGDR-07C

Gate Driver Board

Amplified IGBT gate-control pulses inside an ABB ACS 600 phase module

PRODUCT SNAPSHOT

BRAND

ABB

FAMILY

ABB ACS 600 phase-module drive hardware

PART

NGDR-07C

PRODUCT TYPE

Gate Driver Board

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

Amplified IGBT gate-control pulses inside an ABB ACS 600 phase module

1

Belongs to the ACS 600 NGDR board family

2

Amplifies control pulses for IGBT devices

3

Works in the phase-module power stage

4

Requires exact board-marking verification

SYSTEM COMPONENTS

ACS 600 phase module

NINT and NXPP control boards

documented power plate

controlled gate and feedback harnesses

TECHNICAL NOTE

ABB's public ACS 600 manual documents the NGDR family role but does not decode the 07C suffix; verify the complete board marking and controlled drive drawing before replacement.

TECHNICAL DATA

PARAMETER	VALUE
Supplied identity	NGDR-07C
Board family	NGDR gate driver
Drive family	ACS 600 MultiDrive
Documented frame use	R4i and larger phase modules

PARAMETER	VALUE
Primary function	Amplifies IGBT control pulses
Power-plate relationship	Two NGDR boards control one power plate in documented R4i-R7i architecture
Controller relationship	Operates in the NINT / NXPP / NGDR control path
Exact suffix boundary	Verify 07C from board marking and controlled spare-parts record

ENGINEERING NOTE

ABB's public ACS 600 manual documents the NGDR family role but does not decode the 07C suffix; verify the complete board marking and controlled drive drawing before replacement.

RELATED PRODUCTS ON APTER POWER

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APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

IGBT gate-pulse amplification

Belongs to the ACS 600 NGDR board family

Phase-module power control

Amplifies control pulses for IGBT devices

ACS 600 drive service

Works in the phase-module power stage

Controlled NGDR board replacement

Requires exact board-marking verification

PRODUCT PRECAUTIONS

- 1 Verify the complete NGDR-07C marking and its assigned ABB ACS 600 phase-module drive hardware position before work.
- 2 Place the connected igt gate-pulse amplification process in the approved maintenance state.
- 3 Isolate every documented power, signal and stored-energy source before disconnecting conductors or cables.
- 4 Record the installed slot, connectors, conductors, addressing, firmware and software configuration before removal.
- 5 Use ESD-safe handling and protect keyed electrical, fiber or sensor interfaces as applicable.
- 6 Confirm the installed ACS 600 phase module and NINT and NXPP control boards against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended phase-module power control function and retain the final acceptance result.

ENGINEER FAQ

Q1 Which board family contains ABB NGDR-07C?

NGDR-07C belongs to ABB's NGDR gate-driver board family used in ACS 600 phase-module hardware.

Q2 What control function is assigned to ABB NGDR-07C?

The NGDR family amplifies control pulses that drive the IGBT power devices.

Q3 Where is ABB NGDR-07C installed in the drive architecture?

It belongs in the documented ACS 600 phase-module power stage, not in a general controller I/O position.

Q4 How does ABB NGDR-07C relate to a power plate?

ABB's documented R4i-R7i architecture uses two NGDR boards to control one power plate.

Q5 Which companion boards must be checked with ABB NGDR-07C?

Inspect the documented NINT, NXPP and NGDR control path and retain every matched harness identity.

Q6 Does ABB public documentation decode the 07C suffix of NGDR-07C?

No. The public hardware manual explains the NGDR family role; the exact 07C suffix must be verified from the board marking and controlled spare record.

Q7 Which safety controls apply before handling ABB NGDR-07C?

Isolate the converter, wait the published discharge time, verify a safe DC-link condition and use ESD-safe board handling.

Q8 How is ABB NGDR-07C commissioned after replacement?

Confirm the exact board identity, restore all gate and feedback connectors, review drive diagnostics and perform the approved controlled motor test.

SOURCE ABB ACS 600 MultiDrive Hardware Manual | ACS 600 MultiDrive Hardware Manual - NGDR gate driver section

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