

INDUSTRIAL AUTOMATION PRODUCT

NGDR-07C

Gate Driver Board

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

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
System family	ABB ACS 600 phase-module drive hardware
Part number	NGDR-07C

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Technical Specifications

Technical values below are limited to the named ABB product record.

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

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	ACS 600 phase module
Companion hardware	NINT and NXPP control boards
Field connection	documented power plate
Primary system function	Belongs to the ACS 600 NGDR board family
Controlled acceptance duty	IGBT gate-pulse amplification

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System Role and Architecture

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

FUNCTION 1

Belongs to the ACS 600 NGDR board family

FUNCTION 2

Amplifies control pulses for IGBT devices

FUNCTION 3

Works in the phase-module power stage

FUNCTION 4

Requires exact board-marking verification

Matched system components

- ACS 600 phase module
- NINT and NXPP control boards
- documented power plate
- controlled gate and feedback harnesses

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	ACS 600 phase module
Companion hardware	NINT and NXPP control boards
Field connection	documented power plate
Primary system function	Belongs to the ACS 600 NGDR board family
Controlled acceptance duty	IGBT gate-pulse amplification

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	NGDR-07C / NGDR-07C recorded
Physical interface	ACS 600 phase module
Companion check	NINT and NXPP control boards
Functional proof	Belongs to the ACS 600 NGDR board family
Application test	IGBT gate-pulse amplification

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Engineering 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 igbt 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.

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MANUFACTURER SOURCE RECORD

ABB ACS 600 MultiDrive Hardware Manual

ACS 600 MultiDrive Hardware Manual - NGDR gate driver section

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