

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB 3BHE041343R0102 PCD530 A102

Product Reference

ABB UNITROL 6000 X-Power G2 Standard Controller Board

DOCUMENT SCOPE

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

Product / lookup identity	ABB 3BHE041343R0102 PCD530 A102
Reference number	PCD530 A102
Document basis	Published ABB product records, PDFs, and manuals listed on page 3

**Product page**

<https://www.apterpower.com/ABB/3bhe041343r0102-pcd530-a102>

Apter Power contact

sales13@apterpower.com | +86 180 3023 5313

Product role and published parameters

WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

ABB PC D530 A102, identification number 3BHE041343R0102, is the standard controller board identified by ABB as a Communication Control Measurement (CCM) component for UNITROL 6000 X-power (G2) excitation systems. Within the excitation system it belongs to the controller layer that supports communication, control and measurement functions. ABB's UNITROL 6000 documentation describes system-level regulation...

Published field	Manufacturer-published value or verified identity note
Manufacturer	ABB
Identification number	3BHE041343R0102
Type	PC D530 A102
Functional designation	CCM - Communication Control Measurement
Product form	Standard Controller Board
System	UNITROL 6000 X-power (G2)
Board-level signal/channel counts	Not published in the cited ABB material

System function and signal path

01	Within the excitation system it belongs to the controller layer that supports communication, control and measurement functions. ABB's UNITROL 6000 documentation describes system-level...
02	The board is used with the configured UNITROL 6000 X-power (G2) hardware, software, measuring circuits, converter interfaces and service tools selected for the installed project. ABB does not...
03	Typical system environments include synchronous generators in steam, gas, nuclear and hydro power plants and large motors in process industries such as steel, mining and oil and gas...

Applications, answers, and official sources

1 Power-plant generator excitation: Controller-board role within configured UNITROL 6000 systems for generators in steam, gas, nuclear and hydro power plants.

2 Industrial synchronous-motor excitation: Used within UNITROL 6000 installations serving large motors in steel, mining and oil-and-gas process industries.

3 Excitation control and measurement: Supports the CCM controller layer of UNITROL 6000 X-power (G2); exact board signal allocation remains project-specific and is not published in the cited sources.

4 Excitation-system monitoring and service: Operates within a UNITROL 6000 architecture whose system functions include monitoring, protection, event recording and service tools.

Frequently asked questions

What is ABB 3BHE041343R0102?	ABB identifies it as PC D530 A102, a standard Communication Control Measurement controller board for UNITROL 6000 X-power (G2).
Is PCD530 A102 a complete excitation system?	No. It is a controller board used within a configured UNITROL 6000 X-power (G2) excitation system.
What does CCM mean?	ABB expands CCM as Communication Control Measurement.
Does ABB publish the board's I/O channel counts?	Not in the cited official sources. Do not invent analog, digital or pulse-channel quantities.
Which equipment uses UNITROL 6000?	ABB positions UNITROL 6000 for generators in steam, gas, nuclear and hydro power plants and for motors in industries including steel, mining and oil and gas.
Can all UNITROL 6000 functions be attributed exclusively to this board?	No. Regulation, protection, monitoring and recording are documented as system-level UNITROL 6000 capabilities; board-level allocation is project-specific.

Official ABB sources

ABB UNITROL 6000 spare parts loyalty offer	https://library.e.abb.com/public/d1176f8b0e4f4b8aa11743e7fd8cd280/Excitation%20Q4%202019%20loyalty%20offer.pdf
ABB UNITROL 6000 Excitation Systems brochure	https://library.e.abb.com/public/f7e8e68377aa4bc29d147c9de6c617de/9AKK107492A4684_UNITROL%206000%20Brochure_EN_US%20Letter_202110.pdf
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