

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB 3BHE041343R0102 PCD530 A102

PCD530 System Integration Guide

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>

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PCD530 system integration path

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, protection, monitoring, event recording and time synchronization; those are UNITROL 6000 capabilities and must not all be represented as exclusive board-level specifications.

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| 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 regulation, protection... |
| 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 publish board-level... |
| 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. Selection and replacement... |

Published system boundaries

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|----|---|
| 01 | Status: confirmed with scope restriction |
| 02 | Lifecycle status: formal current ABB lifecycle phase not published in the cited material |
| 03 | Lifecycle evidence: The exact order code appears in an ABB UNITROL 6000 spare-parts offer and has an ABB official product-record URL. |

Integration and identity checks

01	Verify order code 3BHE041343R0102, type PC D530 A102 and the physical board revision before replacement.
02	Use it only in the UNITROL 6000 X-power (G2) configuration approved for the installed project; do not assume compatibility from a similar-looking board.
03	Back up the applicable UNITROL parameters, project files and diagnostic records before removal or exchange.
04	Apply the ESD, isolation and board-handling procedures in the current ABB UNITROL service documentation; replacement should be carried out by qualified personnel.
05	Do not wire or commission from unverified third-party pinouts, voltage ranges or channel specifications; use the project-specific ABB drawings and manuals.

Identity and release controls

Status	confirmed with scope restriction
Publish Allowed	Yes

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
ABB UNITROL 6000 product page	https://new.abb.com/power-electronics/excitation-and-synchronization/Unitrol-excitation-systems/unitrol-6000
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