

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB FPBA-01-M 3AXD5000012431

FPBA-01-M Multi-Drive PROFIBUS Guide

ABB FPBA-01-M PROFIBUS DP Adapter 20-Pack

DOCUMENT SCOPE

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

Product / lookup identity	ABB FPBA-01-M 3AXD5000012431
Reference number	3AXD5000012431
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/fpba-01-m-3axd5000012431>

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PROFIBUS master-to-drive communication path

ABB FPBA-01-M, order code 3AXD5000012431, is the official 20-pack of PROFIBUS DP fieldbus adapters offered for ABB machinery-drive installations. Each adapter mounts in the drive option slot and connects an ABB ACS355 drive to a PROFIBUS master such as a PLC or DCS, allowing the automation controller to command and monitor the drive through the configured fieldbus interface instead of extensive hardwired control signals.

01	Master To Drive: Receives cyclic control words, speed or process references, and configured data words from the PROFIBUS master for the drive.
02	Drive To Master: Returns status words, actual values, and selected drive data to the master.
03	Parameter Access: Supports drive parameter access through the PROFIBUS DP mechanisms and the selected ABB Drives, PROFIdrive, or transparent communication profile as supported by the exact ACS355 configuration.
04	Physical Layer: Uses asynchronous half-duplex RS-485 over shielded twisted-pair PROFIBUS cable through a 9-pin D-SUB connector.
05	Network Management: Automatically detects baud rate and telegram type; each node needs a unique address, and the bus must be externally terminated at both trunk ends.

Twenty-pack, protocol, and host-drive boundaries

01	Verification Status: VERIFIED_EXACT_MODEL_AND_ORDER_CODE_FROM ABB_OFFICIAL_ACS355_CATALOG
02	Exact Mapping: ABB ACS355 catalogs map order code 3AXD5000012431 to FPBA-01-M and describe it as a 20-pack PROFIBUS DP option for machinery drives. ABB's official PROFIBUS page identifies FPBA-01-M as compatible with ACS355 drives.
03	Lifecycle Status: unknown – ABB currently publishes FPBA-01-M in official ACS355 and transition literature, but no cited exact source assigns an Active, Classic, Limited, or Obsolete lifecycle phase.

Pack identity, ACS355, addressing, shielding, and termination checks

01	Verify FPBA-01-M and ABB order code 3AXD5000012431 on the outer package and verify the module labels and 20-unit quantity before supply.
02	Confirm exact ACS355 hardware, firmware, option-slot, and parameter compatibility in the current drive manual before installation.
03	Do not install FPBA-01-M in a DCS580; ABB's DCS580 firmware manual explicitly says suffix-M fieldbus adapters such as FPBA-01-M are not supported.
04	Isolate the drive input power, external control voltages, and rotating-machine hazards; wait the drive-manual discharge time and prove absence of voltage before installing or removing an adapter.
05	Use a unique PROFIBUS node address and validate the master hardware configuration, GSD file, communication profile, telegram/PPO selection, and data-word mapping.
06	Use PROFIBUS-approved shielded twisted-pair cable and 9-pin D-SUB connectors; route bus cable away from motor cables and avoid long parallel runs.

Identity and release controls

Verification Status	VERIFIED_EXACT_MODEL_AND_ORDER_CODE_FROM ABB_OFFICIAL_ACS355_CATALOG
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Official ABB sources

ABB machinery drives ACS355 catalog	https://library.e.abb.com/public/8d2b305844494ec4877f916eaf400260/ACS355_catalog_3AUA0000068569_EN_RevH.pdf
ABB ACS355 catalog with explicit FPBA-01-M order code	https://library.e.abb.com/public/f53799e2d42e40449d1877dc4593a366/ACS355_catalog_3AUA0000145028_RevH_RU.pdf
FPBA-01 PROFIBUS DP adapter module user's manual	https://library.e.abb.com/public/538b0f9011cb4fddb33fb79d838f5895/EN_FPBA01_UM_E_screenres.pdf
ABB PROFIBUS drive communication page	https://new.abb.com/drives/pl/komunikacja/magistrala-komunikacyjna/profibus
ABB ACS355 to ACS380 Transition Guide	https://library.e.abb.com/public/8ec67b0892d048fea53ceb5c5cf1b4c4/9AKK108470A2629_ACS355_ACS380_Transition_Guide_RevA.pdf
ABB DCS580 Firmware Manual	https://library.e.abb.com/public/91d3665648a3499aa0ed51f181285db0/3ADW000820R0201%20DCS580%20Firmware%20manual%20en%20b.pdf