TECHNICAL REFERENCE

ABB DSMB178 IN5730-1001-Y

Memory board and documented PROM role

DSMB178 IN5730-1001-Y is the exact Apter Power listing reference. ABB identifies the DSMB 178 base type as a Memory Board within the MasterPiece central-unit family. The technical distinctions below keep base-module evidence separate from the supplied item's complete marking.

Technical identity	Verified basis
Manufacturer / base type	ABB / DSMB 178
Documented role	Memory Board; PROM in the cited MasterGate arrangement
Documented PROM capacity	1 MB
Documented CPU context	DSPC 172 / DSPC 172H
PROM placement	CPU-board assembly, section 2.2
PROM module count	One DSMB 178 in the described memory assembly
ABB system classification	Advant OCS with Master SW; MasterPiece 200 and 200/1 Central Units
Photographed label	57360001-MM / PR:01

The 1 MB PROM description comes from ABB 3BSE002142R1, section 2.2, page 5, for a MasterGate 230/1 configuration. It is not a decoding of the IN5730-1001-Y suffix or proof of a particular software image.

Prepared by Apter Power as a technical reference. This is not an ABB-issued datasheet or an installation authorization.

APTER POWER PRODUCT SUPPORT

Technical identification and product documentation enquiries

sales13@apterpower.com

+86 180 3023 5313

SCAN TO CONTACT

TECHNICAL REFERENCE

PROM, working memory and CPU context

A replacement decision must distinguish the memory device from the complete CPU assembly. In the cited ABB hardware description, the PROM module and RWM perform different roles. A shared capacity or board-family prefix does not make them interchangeable.

Component	Role in the cited configuration
DSMB 178	PROM module; 1 MB in the described assembly.
DSPC 172 / 172H	CPU hardware addressed by section 2.2. Its figures distinguish single and redundant configurations.
DSPC 172-2	CPU subassembly shown in figures 1 and 2; the single arrangement includes 0.5 MB RWM on this assembly.
DSMB 175	Separate RWM boards described for the redundant arrangement. This is not another name for DSMB 178.

Three separate checks

Hardware fit: compare the complete board and CPU assembly references with the approved installation record. Do not choose the replacement from a product-family name alone.

Programmed contents: confirm the required PROM labels, software release and system configuration. Capacity describes storage size; it does not identify the contents.

Configuration scope: the MasterGate example supports the stated memory role. It is not a compatibility matrix for every MasterPiece 200 or 200/1 installation.

Electrical ratings, access speed and environmental limits are intentionally not assigned without an applicable board-level source.

APTER POWER PRODUCT SUPPORT

Technical identification and product documentation enquiries

sales13@apterpower.com

+86 180 3023 5313

SCAN TO CONTACT

TECHNICAL REFERENCE

Controller-platform applications

ABB places DSMB 178 in the Advant OCS with Master SW catalogue under MasterPiece 200 and 200/1 Central Units. This catalogue classification and the MasterGate hardware example answer different questions: product family versus a documented assembly arrangement.

Platform setting	Engineering interpretation
Cement production	ABB describes MasterPiece 200/1 with distributed S400 remote I/O in cement plants. The central-unit memory must match the installed hardware and project configuration.
Pulp and paper	The ABB platform overview also identifies pulp and paper applications. Industry context does not establish a particular PROM image or spare-board revision.
Steel and coking	ABB records an SSAB coking-plant installation with three MasterPiece 200/1 controllers before migration. Controller history is not a replacement approval.
Oil and gas	ABB describes upgrades of legacy MasterPiece controllers at Gullfaks. No DSMB178-specific safety approval is inferred from that system application.

Memory is not a network interface

The MasterGate supplement describes communication on separate DSCA and DSCS hardware. MasterBus or Ethernet references describe the surrounding system; they should not be published as DSMB 178 interface specifications.

Sources: ABB platform overview; ABB SSAB MasterPiece-to-Advant case; ABB Gullfaks control-system upgrade case. The source roles are limited to controller context.

APTER POWER PRODUCT SUPPORT

Technical identification and product documentation enquiries

sales13@apterpower.com

+86 180 3023 5313

SCAN TO CONTACT

TECHNICAL REFERENCE

Technical questions for replacement review

Question for DSMB178 IN5730-1001-Y	Technical answer
What is its documented memory type?	PROM, as specified for DSMB 178 in ABB 3BSE002142R1 section 2.2.
What does 1 MB describe?	The PROM module capacity in the cited configuration, not total CPU working memory.
Which CPU family is discussed?	DSPC 172/172H; verify the actual assembly and revision in the site documentation.
Where is the PROM located?	On the CPU-board assembly shown in the cited hardware section.
Can DSMB 175 replace DSMB 178?	The document assigns DSMB 175 an RWM role and DSMB 178 a PROM role. They are not interchangeable by name.
Does it provide networking?	The reviewed source assigns communication to separate boards, not the DSMB 178 PROM module.
Is matching capacity sufficient?	No. Review board revision, CPU configuration and programmed contents together.
Does the suffix identify firmware?	No verified ABB mapping for IN5730-1001-Y was found. Preserve the complete marking and confirm the software requirement separately.

Acceptance evidence

Keep the installed-board record, the offered-unit label photos and the applicable system documentation together. Resolve differences in connector layout, board revision or PROM labels before installation.

These questions support engineering review; they do not provide undocumented jumper positions, pin assignments or live replacement instructions.

APTER POWER PRODUCT SUPPORT

Technical identification and product documentation enquiries

sales13@apterpower.com

+86 180 3023 5313

SCAN TO CONTACT

TECHNICAL REFERENCE

Source register and document control

Reference	Scope used in this document
ABB product catalogue	DSMB 178 Memory Board, service entry TES57360001-MM. Used only for base-type identity and MasterPiece central-unit classification; not for service logistics as hardware ratings.
ABB Automation 3BSE002142R1	MasterGate 230/1 supplement to the MasterPiece 200/1 Installation, Commissioning and Service Manual. Sections 1.1-1.2 and 2.2, pp. 3 and 5. Manufacturer-authored copy reviewed; host-page title is inconsistent with the internal document number.
ABB MasterPiece 200 / 200/1 overview	Manufacturer platform history and industry context. This supports system descriptions, not a board-level approval or an unrestricted interchangeability claim.
Apter Power label photograph	DSMB 178, 57360001-MM and PR:01 are visible on the photographed board. They do not replace inspection of the offered unit or establish the meaning of IN5730-1001-Y.

Reviewed 27 October 2026. Apter Power revision R2. No ABB document reviewed establishes IN5730-1001-Y as an equivalent ABB order code. Source references are recorded as document identities; no external manufacturer or mirror links are embedded.

Related ABB catalogue references

These are separate catalogue items for further engineering review. They are not approved substitutes for this listing.

ABB DSPC172H 57310001-MP	Review its own controller, memory and revision requirements.
ABB DSMB127 57360001-HG	Review its own controller, memory and revision requirements.
ABB DSPC155 57310001-CX	Review its own controller, memory and revision requirements.

APTER POWER PRODUCT SUPPORT

Technical identification and product documentation enquiries

sales13@apterpower.com

+86 180 3023 5313

SCAN TO CONTACT