ABB AINT-14C

Technical Reference and Engineering Data

ABB AINT-14C is a main-circuit interface board for the ABB ACS800-67 converter module architecture. The complete marking must be matched to the installed hardware, wiring and configuration before replacement.

01 Exact identity and system role

Complete model	AINT-14C
Product type	main-circuit interface board
Manufacturer	ABB
Technical source	ABB ACS800-67 Wind Turbine Converters Hardware Manual
Drawing position	A42
Converter sections	2 documented locations: grid-side and rotor-side
Interface medium	PPCS optical links
Gate-driver path	3-phase converter interface

System position

AINT-14C provides the PPCS optical interface between the ACS800-67 control arrangement and the documented three-phase converter gate-driver path at position A42.

Lifecycle and installed-base context

Exact board phase	A current manufacturing or support phase for the AINT-14C board has not been separately established.
Converter support	Support planning must identify whether the board is in the grid-side or rotor-side A42 location and retain the installed PPCS optical-link map.
Supply boundary	Apter Power availability applies to the offered AINT-14C board and does not establish ACS800-67 converter lifecycle status.

02 Verified technical data

Drawing position	A42
Converter sections	2 documented locations: grid-side and rotor-side

Additional engineering data

Interface medium	PPCS optical links
Gate-driver path	3-phase converter interface

Applicability boundary

The exact board role and converter relationships are identified in the ABB hardware manual. Board-level electrical values not stated by ABB are not inferred.

03 Integration and engineering interpretation

Grid-side converter interface

Link control electronics with the documented grid-side power stage.

Rotor-side converter interface

Serve the documented rotor-side converter modules.

PPCS optical communication

Carry directional optical control and feedback channels.

Power-stage maintenance

Replace the exact board while preserving gate-driver and control connections.

Technical notes

Position relationship	Confirm whether AINT-14C belongs to the grid-side or rotor-side A42 location and preserve the exact connector and PPCS fiber assignment.
Signal boundary	Treat the board as the control-to-gate-driver interface; inspect optical connectors and maintain fiber routing without applying power-stage ratings to the board.
Technical reference	ABB ACS800-67 Wind Turbine Converters Hardware Manual.

Interpretation boundaries

Probe-only limit	Do not present complete-system range, scale or linearity as a standalone output of AINT-14C.
Target influence	Material, geometry, finish and nearby conductive surfaces can change the installed response.
Length influence	Probe lead and extension cable form part of the calibrated electrical relationship.
Temperature influence	Apply component temperature limits at their actual locations and compare with process transients.
Mechanical influence	Thread engagement, rigidity, target travel and cable support affect repeatability and service life.
Acceptance rule	Use the approved machine baseline and maintenance procedure for the final as-left decision.

04 Diagnostic decisions and support record

How should the optical channels of AINT-14C be recorded?	Label each transmitter and receiver fiber by channel and destination, then photograph the routing before removal.
What should be checked if AINT-14C reports a converter-side communication fault?	Inspect fiber seating and direction, control-board status, local power, gate-driver connections and the configured converter section.
Why must the installed converter side be known before replacing AINT-14C?	ABB uses the board in grid-side and rotor-side assemblies whose companion boards and channel maps differ.
What is the safe acceptance sequence for AINT-14C?	Verify power-off continuity and optical routing, energize control power, clear diagnostics and follow the approved converter test before enabling the power stage.
What evidence should be recorded before replacing AINT-14C?	Capture the complete nameplate, installed slot or mounting position, companion hardware, wiring identifiers and the accepted operating baseline for the main-circuit interface board.
How should an intermittent fault around AINT-14C be isolated?	Separate field wiring, connector, supply, grounding, configuration and host-system causes. Reproduce the symptom under a controlled test and change only one variable at a time.
What configuration evidence should be retained after commissioning AINT-14C?	Retain the hardware identity, firmware or parameter record where applicable, channel assignment, as-left measurements, alarm or diagnostic state and the approved functional-test result.
When should AINT-14C be rejected during incoming inspection?	Quarantine the item if the complete marking, connector keying, board revision, protective coating, terminal condition or required companion hardware differs from the approved replacement record.

Verified source

ABB ACS800-67 Wind Turbine Converters Hardware Manual

Related product references

Related product	CI858K01 3BSE018135R1
Related product	PM511V16 3BSE011181R1
Related product	BCU-12 3AUA0000110430
Related product	ZINT-571 3AUA0000077333

Engineering contact

Discuss the exact marking and installed application with Apter Power.
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Acceptance evidence package

Nameplate evidence	Overall and close photographs showing AINT-14C, revision, approval and serial details where present.
Installation evidence	Views of the rack position, mechanical datum, terminal assignment, cable route and strain relief.
Configuration evidence	Export or screenshots identifying the approved hardware assignment and parameters without exposing credentials.
Baseline evidence	As-found readings with units, test conditions, machine state and the instrument used.
Inspection evidence	Connector, contact, insulation, fastener, contamination and heat-condition observations.

Functional evidence	As-left readings and the controlled input, output or channel response used for acceptance.
Change evidence	Any wiring, setting, firmware or mechanical change linked to its approved work reference.
Release evidence	Technician, reviewer, date, asset reference and the maintenance-record location for traceability.

Controlled acceptance sequence

01 Isolate	Place the monitored machine and channel in the approved maintenance state; prove the required isolation.
02 Photograph	Capture AINT-14C, the installed datum, connector, route and companion-component markings.
03 Measure	Record mechanical position and the applicable stopped-machine electrical reading before removal.
04 Compare	Check delivered identity, interfaces and evidence against the approved drawing and spare-parts record.
05 Install	Fit without twisting the lead; preserve thread engagement, target clearance, bend radius and strain relief.
06 Set point	Establish the operating gap or datum only with the approved stopped-machine procedure.
07 Prove	Compare local reading, monitor indication and controlled operating response with the accepted baseline.
08 Handover	Record as-left values, photographs, deviations, responsible technician and release approval.

Evidence quality controls

Traceability	Each value is tied to AINT-14C, the asset location, test state, instrument and date.
Repeatability	The same approved method and comparable operating state are used for before-and-after readings.
Resolution	Recorded precision does not exceed the capability of the instrument or source document.
Reference state	Stopped, energized, loaded and process-running observations are clearly distinguished.
Change control	Every changed setting, connection or mechanical datum has an approved reason and reviewer.
Retention	Evidence remains accessible with the maintenance record for future troubleshooting and replacement review.