ABB YPK113A

UART Communication Board

ABB YPK113A links the Application Controller to external devices through UART communication, with separate RS-232 and 20 mA current-loop connection provisions.

Sourcing Support | 12-Month Warranty

Product summary

Manufacturer part number	YPK113A
Shipping	Swift global dispatch
Condition	New, original product
Shipping size (est.)	1.6cm x 16.2cm x 8.4cm
Country of Origin	Sweden
Manufacturer	ABB
Product Category	General Automation
Spare Part Number	YPK113A
Weight	0.14 kg

Buyer information / Overview

YPK113A is the UART option, distinct from the YPK112A AF100 board and YPK117A Modbus board. The ACV700 arrangement connects board X1 to APC X5; the selected protocol and actual external interface must match the installed application.

Separate serial connection choices

RS-232 and current-loop provisions serve different external wiring arrangements.

Controller-mounted communication

The board plugs into the APC rather than operating as a standalone network controller.

Protocol-specific integration

The remote device and application mapping determine the useful exchange, beyond serial activity alone.

In the ACV700 APC arrangement, board connector X1 plugs into APC X5 and the board is secured with three M3 screws. Preserve this controller-side fit and record the external connection before removal; a similar communication board may perform a different protocol duty.

X2 is the nine-pole D connector for RS-232. X3 is the screw-terminal connection for a 20 mA current loop. Bit rate is selectable up to 19200 bit/s. The board requires no separate external supply except for the current-loop connection; that exception must be resolved against the actual installation drawing.

The ACV700 description lists SAMI, Allen-Bradley DF1 and Siemens S3964/S3964R. The DCV700 catalogue separately uses Allen-Bradley DH context wording. Select the installed platform’s protocol and configuration, then prove commands, statuses and data interpretation with the remote device; the names do not establish a universal interchangeable cable.

Controller platform reference: ACV700 / DCV700 APC UART communication. Retain the documented ABB configuration.

Technical Specifications

Selectable bit rate, maximum	19200 bit/s
RS-232 connector pins	9
Current-loop interface	20 mA
Mounting screws	3 x M3

Technical source: ABB ACV 700 Hardware Manual, Control System, and DCV700 Technical Catalogue. Connector, mounting and bit-rate data describe YPK113A in the ACV700 APC arrangement. Its SAMI, DF1 and S3964/S3964R protocol descriptions are not a universal pinout or proof of supplied-board configuration. The separate DCV700 catalogue uses Allen-Bradley DH context wording; do not treat DH and DF1 as interchangeable. YPK117A Modbus specifications are excluded.
Apter Power product summary. Original technical pages and a field guide are available in Downloads.

Applications / Compatibility

Use YPK113A on the retained APC UART connection. In the ACV700 arrangement its controller-side X1 mates with APC X5; the external serial circuit remains a separate choice.

Identify the actual protocol and remote device before selecting X2 RS-232 or X3 current loop. AF100 and the neighboring Modbus board are different communication options.

APC-mounted UART link

Restore the X1-to-X5 controller connection and the board retention. Keep the remote application and data mapping with this hardware record.

X2 RS-232 installation

Use the nine-pole D interface for its documented RS-232 duty. Preserve the installed pin assignment and serial settings rather than assuming a universal cable.

X3 current-loop installation
Review the 20 mA screw-terminal circuit and its external supply requirement. Do not transfer the RS-232 connection or power assumption to this path.

Protocol and remote-data fit
Match SAMI, DF1 or S3964/S3964R to the ACV700 application. Resolve any DCV700 DH context against the actual system before accepting a protocol change.

Product Precautions

Prepare ABB YPK113A using the following checks for its documented interface and system duty.

Keep the APC assembly isolated
Use the approved power isolation before disturbing X1/X5 or the retaining screws.

Preserve X2 circuit identity
Compare the actual RS-232 cable assignment; a D connector alone does not define pinout.

Review X3 external supply
Resolve the current-loop power exception against the installed circuit before energization.

Match installed serial settings
Use the accepted rate up to the supported ceiling, with matching remote settings.

Keep protocols distinct
Do not apply YPK117A Modbus behavior or an AF100 wiring assumption to the UART board.

Prove remote application action
Verify the intended commands and statuses before releasing the communication duty.

Lifecycle Status

The factory lifecycle phase of YPK113A is unconfirmed. It is a retained APC UART communication option; its protocol and external serial arrangement remain installation-specific.

YPK117A provides a different Modbus duty and YPK112A an AF100 arrangement. Review the APC application, external circuit and remote protocol before considering either architectural change.

The UART board is separate from the APC, supervisory system and interface cables; any required configuration material is identified independently.

Available Unit Details

Offered reference	ABB YPK113A
Identity check	Request the YPK113A marking, X1 APC connection, X2 D connector, X3 screw terminals and board-retention points.
Physical review	The offer is the UART board without APC, serial cables or application configuration unless listed. The selected protocol, current-loop supply and correct remote-data exchange require checks against the installed system.
Included items	one UART communication board; controller, cables and configuration services separately listed

Request available-unit photos and details: sales13@apterpower.com

Technical notes

Protocol scope	The ACV700 description names DF1; the DCV700 catalogue names a DH context. These labels are not asserted to be equivalent.
Power exception	The no-separate-supply statement excludes the current-loop connection; review X3 power from the actual circuit drawing.
Adjacent-board boundary	YPK117A Modbus slave counts and current-loop channel behavior do not specify YPK113A.

Alternative Names

ABB YPK113A

Frequently Asked Questions (FAQ)

1. Why can X2 on YPK113A not be used as a direct replacement for an X3 circuit?

X2 is RS-232 on a nine-pole D connector, while X3 is a 20 mA current-loop screw-terminal interface. Reconcile signaling, wiring and current-loop supply from the installed drawing before changing the connection.

2. What power detail must be reviewed when YPK113A uses the current-loop interface?

The manufacturer’s no-external-supply statement explicitly excludes the current loop. Identify its actual external supply and circuit arrangement before energizing X3; do not assume the RS-232 power relationship applies.

3. How should a bit-rate mismatch on YPK113A be investigated?

Compare the selected rate and other retained serial settings at the APC/application and remote device. The board permits rates up to 19200 bit/s, but the maximum is not a required setting; confirm valid application exchanges at the installed common setting.

4. Does replacing YPK113A with YPK117A preserve the existing protocol?

No such equivalence follows. YPK113A lists SAMI, DF1 and S3964/S3964R in the ACV700 description, whereas YPK117A is the separate Modbus board. Review the entire remote-system/application relationship before migration.

5. What controller-side fit should be checked if YPK113A has been removed during APC work?

In the documented ACV700 arrangement X1 mates with APC X5 and the board is fixed by three M3 screws. Inspect connector seating and retention under the approved isolated procedure, then test the external data relationship separately.

6. Why can serial traffic from YPK113A coexist with incorrect remote commands?

Electrical traffic does not establish protocol or application data mapping. Compare the selected remote protocol and command/status interpretation, and demonstrate the intended application transaction before accepting the link.

7. Can the DH wording in a DCV700 description be assumed to mean DF1 for YPK113A?

No. The sources use different platform-specific descriptions. Identify the actual controller installation, remote protocol and retained configuration rather than treating those names as interchangeable electrical or application specifications.

8. What distinguishes a correct SAMI restoration using YPK113A from a connector-only check?

Restore the recorded APC mounting, serial circuit and settings, then demonstrate the required SAMI command and status exchange with the intended remote device. Retain that functional result and the accepted application mapping.

Downloads

The technical reference covers ACV700 / DCV700 APC UART communication. The independent field guide develops apc uart interface and protocol restoration.

YPK113A Original Technical Reference Excerpt	Selected original manufacturer pages for the applicable interfaces and technical data. PDF · 2 pages · 43.5 KB.
YPK113A Installation & Commissioning Guide	APC UART Interface and Protocol Restoration. Resolve controller seating, external serial circuit and protocol/data interpretation as three independent decisions before accepting the restored UART link. PDF · 2 pages · 92.2 KB.

Selected original technical pages and a separate installation guide support this product.

What happens after you enquire

Review your reference	Send the full marking, quantity and label photos. We review the item and any version details that need clarification.
Confirm the offer	Check the quoted reference, condition, included items and expected dispatch date before approving your order.
Arrange dispatch	Confirm delivery details and receive the tracking number when it becomes available.

Ordering checks

Include YPK113A and every revision or approval marking visible on the item. Keep the exact reference on your enquiry and quotation.

Request available label and interface photos. Have your maintenance team compare the offered YPK113A reference with the installed equipment and applicable ABB documentation.

Service and support

Dispatch Planning	Confirm stock and lead time with our team.
Dedicated Manager	Personalized one-to-one VIP service
ISO 9001:2015 Certified	Trusted quality management
Warranty Policy	Review the applicable warranty coverage and claim process.
Return Notice	Check the return process and obtain approval before sending an item back.
Shipping Method	Review shipping arrangements, transit estimates and delivery responsibilities.
Parts Availability	Browse stock listings and confirm current availability with our team.
How to order	See how to submit an enquiry, review a quotation and confirm an order.

Discuss your requirement

Send the full marking, label photos, quantity and required date. Our team will review the available sourcing options with you.

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Related product references

Separate supply references; listing does not establish interchangeability.

ABB 07NG63R1 GJV3074313R1	Dual-Output Rack Power Supply; separate supply reference
ABB SA610 3BHT300019R1	Control System Power Supply Module; separate supply reference

Discuss YPK113A and the installed application with Apter Power.
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