MICROCHIP 2ADHK79V24 Evaluation Board

MICROCHIP 2ADHK79V24 Evaluation Board User Manual

Contents

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Product Specifications

- **Product Name:** EV79V24A (ATA5293-XPRO)
- **Manufacturer:** Premo
- **Antenna Type:** Middle Range Emitter
- **Approved Antenna Part Number:** KGEA-BFCR-B-0500J

Product Usage Instructions

Regulatory Approval Information

This product has received regulatory approval for the following countries:

United States

This equipment is approved for use in the United States under FCC regulations.

Compliance Statements:

- This device complies with part 15 of the FCC Rules.
- Operation is subject to specific conditions to avoid interference.
- This equipment should be operated with a minimum distance of 20 cm between the radiator and the human body.

Canada

This equipment is approved for use in Canada under Innovation, Science, and Economic Development Canada regulations.

Approved Antenna Types

Only the approved antenna type listed in the Antenna Considerations section should be used to maintain compliance.

Frequently Asked Questions (FAQ)

Q: Can I use a different antenna than the approved one?

A: To maintain regulatory compliance, only the antenna type that has been tested and listed should be used with this product.

Q: What are the FCC regulations for operating this equipment?

A: The equipment complies with FCC Part 15 regulations, and specific conditions must be followed to prevent interference.
Ensure a minimum distance of 20 cm between the radiator and any human body.

This document contains the Regulatory Compliance information which will be part of the EV79V24A (ATA5293-

XPRO) datasheet and related documents shared with customers.

Usage Instructions

- This equipment (EV79V24A/ATA5293-XPRO) is an evaluation board of the ATAK51005-V1 kit. It is not directly marketed or sold to the general public through retail; it is only sold through authorized distributors or Microchip.
- Using this equipment requires significant engineering expertise to understand the tools and relevant technology, which can be expected only from a person who is professionally trained in the technology.
- The user must comply with all the instructions provided by the
- Grantee, which indicates installation and/or operating conditions necessary for compliance.

Antenna Considerations

The following table provides details about the approved antenna.

Part Number	Manufacturer	Antenna type
KGEA-BFCR-B-0500J	Premo	Middle Range Emitter

Regulatory Approval

This equipment has received regulatory approval for the following countries:

- United States/FCC ID: 2ADHK79V24
- **Canada/ISED:**
  - **IC ID:** 20266-79V24
  - **HVIN:** EV79V24A
- European Union/CE

FCC

United States

This equipment has been approved for use in the United States under Federal Communications Commission (FCC) CFR47 Telecommunications, Part 15 Subpart C “Intentional Radiators”.

Labeling and User Information

The FCC ID label has been permanently affixed to equipment on the bottom silkscreen layer of the board and is visible, as well as, legible to the user. Due to the size of the equipment, the following compliance statements are included in the user manual:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference,
2. this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, according to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used under the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and the human body.

FCC NOTICE: This kit is designed to allow:

1. Product developers evaluate electronic components, circuitry, or software associated with the kit to determine whether to incorporate such items in a finished product and
2. Software developers to write software applications for use with the end product. This kit is not a finished product and when assembled may not be resold or otherwise marketed unless all required FCC equipment authorizations are first obtained. Operation is subject to the condition that this product does not cause harmful interference to licensed radio stations and that this product accepts harmful interference. Unless the assembled kit is designed to operate under part 15, part 18, or part 95 of this chapter, the operator of the kit must operate under the authority of an FCC license holder or must secure experimental authorization under part 5 of this chapter.

The kit is labeled with the following legend: For evaluation only; not FCC-approved for resale;

Approved Antenna Types

To maintain compliance in the United States, only the antenna type that has been tested shall be used. Testing of this equipment was performed with the antenna type listed in the Antenna Considerations section above.

Helpful Websites

- Federal Communications Commission (FCC): **https://www.fcc.gov/**
- FCC Office of Engineering and Technology (OET) Laboratory Division Knowledge Database (KDB): **https://apps.fcc.gov/oetcf/kdb/index.cfm.**

Canada

This equipment has been approved for use in Canada under Innovation, Science and Economic Development

Canada (ISED, formerly Industry Canada) Radio Standards Specification (RSS) RSS-210.

Labeling and User Information

- The ISED ID label has been permanently affixed to the equipment on the bottom silkscreen layer of the board and is visible, as well as, legible to the user. Due to the size of the equipment, the following compliance statement is included in the user manual:

This device contains license-exempt transmitter(s) that comply with Innovation, Science, and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. this device may not cause interference,
2. this device must accept any interference, including interference that may cause undesired operation of the device.

Approved Antenna Types

To maintain compliance in Canada, only the antenna type that has been tested shall be used. Testing of this equipment was performed with the antenna type listed in the Antenna Considerations section above.

Helpful Websites

- Industry Canada: **http://www.ic.gc.ca/**

European Union

This equipment has been assessed for use in European Union (EU) countries under the Radio Equipment Directive (RED) 2014/53/EU, European Telecommunications Standards Institute (ETSI) EN 300 330, and EN 62368-1.

Labeling Information

The CE mark has been permanently affixed to equipment on the bottom silkscreen layer of the board and is visible, as well as, legible to the user.

Approved Antenna Types

To maintain compliance in the EU, only the antenna type that has been tested shall be used. Testing of this equipment was performed with the antenna type listed in the Antenna Considerations section above.

Simplified EU Declaration of Conformity

Hereby, Microchip Technology Inc. declares that the radio equipment type EV79V24A complies with Directive 2014/53/EU.
The full text of the EU declaration of conformity for this product is available at **www.microchip.com/design-centers/wireless-connectivity/.**

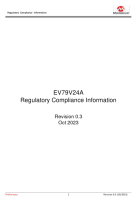
Helpful Websites

A document that can be used as a starting point in understanding the use of Short-Range Devices (SRD) in the EU is the European Radio Communications Committee (ERC) Recommendation 70-03 E, which can be downloaded from the European Communications Committee (ECC) at: **https://docdb.cept.org/**.

Additional helpful websites are:

- Radio Equipment Directive (2014/53/EU): **https://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/red_en**
- European Conference of Postal and Telecommunications Administrations (CEPT): **http://www.cept.org**
- European Telecommunications Standards Institute (ETSI): **http://www.etsi.org**
- The Radio Equipment Directive Compliance Association (REDCA): **http://www.redca.eu/**

Documents / Resources

	**MICROCHIP 2ADHK79V24 Evaluation Board** [pdf] User Manual 2ADHK79V24 Evaluation Board, 2ADHK79V24, Evaluation Board, Board

References

- CeptNew
- CeptNew
- ETSI - Welcome to the World of Standards!
- ETSI - Welcome to the World of Standards!
- Language selection - Innovation, Science and Economic Development Canada Main Site / Sélection de la langue - Site principal d'Innovation, Sciences et Développement économique Canada
- REDCA Home
- OET Knowledge Database (KDB)
- ECO Documentation
- User Manual

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