



BenQ RP7503NFC NFC Module User Manual

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BenQ

BenQ RP7503NFC NFC Module



User Manual


Logging in with an NFC card

To log in with an NFC card, place the NFC card near the NFC Sensor on the front panel. Now you can have access to the NFC function.



- Contact the BenQ dealer if you're interested in purchasing the NFC Card.
- Do not remove the NFC Card from the sensor area until you hear a beep sound and see a dialog window indicating the process is completed.

NFC Function

- NFC  works with a stylus to take notes easier and faster.

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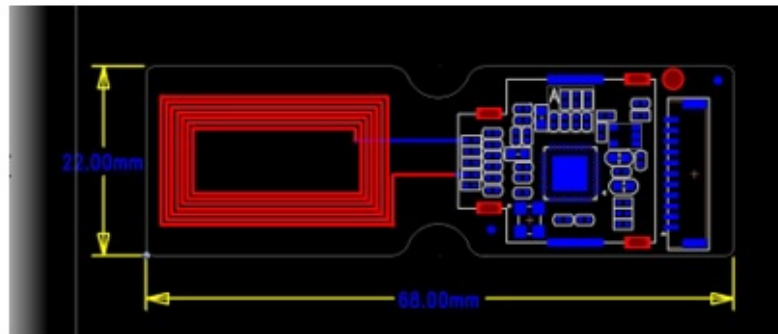
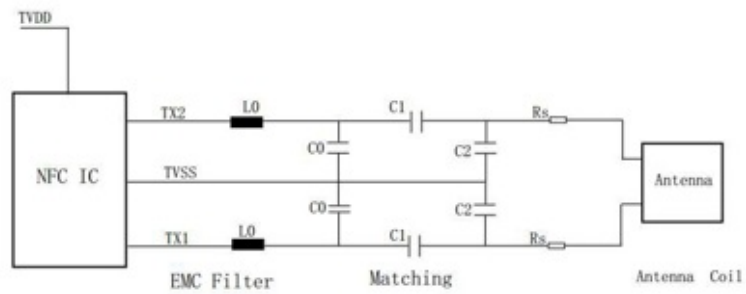
- You can use the stylus to write information on the screen.

The antenna and module are integrated on a board and do not need to be installed. The module has been tested as an independent unit together with other necessary accessories or support units during testing.

Antenna Type: Loop antenna

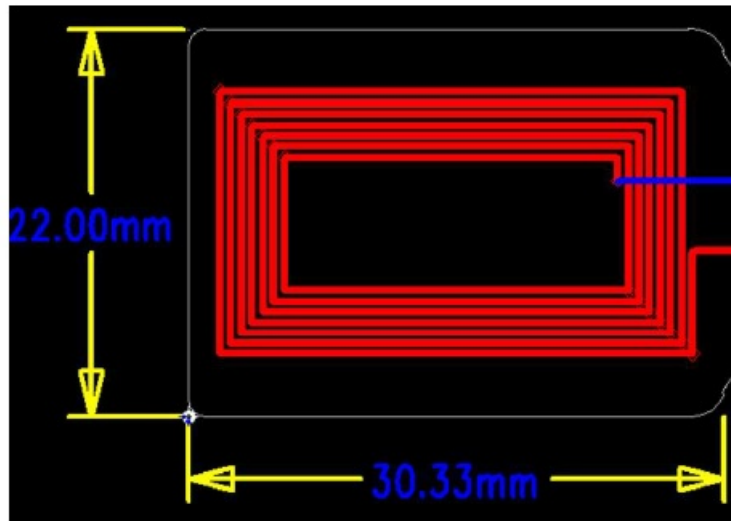
The antenna is the Antenna after matching, and the normal operation is the matched Antenna working, the working principle is an LC oscillation with a frequency of 13.56Mhz. This Antenna has no gain, but a Q value is given, which is an attribute of this Antenna.

SPECIFICATION	
PN	K72H Module Antenna
Standard	NFC
Frequency	13.56MHz
BandWidth	1.921MHZ
Feed Impedance	30ohm
L0	560nH
Ra	2.2ohm
Rs	63.4ohm
Rp	51.66ohm
Working principle	LC oscillator
Interface	Direct connected
Dimensions	68*22*1.2mm



An Antenna Coil is the Coil itself, which is essentially an inductive Coil

SPECIFICATION	
PN	K72H Module Antenna Coil
Standards	NFC
Frequency	13.56MHz
La	1.472uH
C	1.6pF
Rs	1.36ohm
Working principle	Inductance coil
Interface	Direct connected
Dimensions	30.33*22*1.2mm



Safety warnings and precautions

CAUTION

THE RISK OF ELECTRIC SHOCK DOES NOT OPEN

- TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK).
- NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with the arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

THIS EQUIPMENT MUST BE GROUNDED

To ensure safe operation, the three-pin plug must be inserted only into a standard three-pin power outlet which is effectively grounded through normal household wiring. Extension cords used with the equipment must have three cores and be correctly wired to provide connection to the ground. Wrongly wired extension cords are a major cause of fatalities. The fact that the equipment operates satisfactorily does not imply that the power outlet is grounded or that the installation is completely safe. For your safety, if you are in any doubt about the effective grounding of the power outlet, please consult a qualified electrician.

- The main plug of the power supply cord shall remain readily operable. The AC receptacle (mains socket outlet) shall be installed near the equipment and shall be easily accessible. To completely disconnect this equipment from the AC mains, disconnect the power cord plug from the AC receptacle.
- Do not place this display on an uneven, sloping or unstable surface (such as a trolley) where it may fall and cause damage to itself or others.
- Do not place this display near water, like a spa or pool, or in a position that will allow the splashing or spraying of water onto the display, like in front of an open window where rain water may enter.
- Do not install this display in a confined space without proper ventilation and air circulation, such as in a closed cabinet. Allow proper space around the display for dissipating heat inside. Do not block any openings and vents on the display. Overheating may result in hazards and electric shock.
- Installation of this display should only be performed by a qualified technician. Failure to install this display

properly may cause injuries and damage to the personnel and the display itself.

- Check the installation regularly and maintain the display periodically to ensure the best working condition.
- Use only the accessories approved or recommended by the manufacturer to mount this display. Using wrong or unsuitable accessories may cause the display to fall and result in serious personal injuries. Make sure that the surface and fixing points are strong enough to sustain the weight of the display.
- To reduce the risk of electric shock, do not remove covers. No user-serviceable parts inside. Refer servicing to qualified service personnel.
- To prevent personal injuries, mounting the display or installing desktop stands is required before use.

Notice: This product is also designed for an IT power system with phase-to-phase voltage 230.

Regulatory Statements

Accessibility Requirements for Rehabilitation Act of 1973, Section 508

BenQ's commitment to accessible products allows us to support the government in making accessible technology choices. BenQ's LCD monitors and projectors are compliant with Section 508 guidelines by including the assistive features as below:

- BenQ's monitors have colored "Power" indicators. While the indicator shows green, it means that the monitor is using full power. While the indicator shows yellow or amber, it means that the monitor is in suspend or sleep mode and is using less than 2 watts of electricity.
- BenQ's monitors have a variety of settings of pre-programmed flicker-free timing to make the screen shown on the monitor readily accessible. The default timing setting is automatically turned on every time the monitor is powered up, and thus reduces the hassle of user intervention.
- BenQ's monitors and projectors have options for brightness and contrast adjustments that text and images could be displayed differently to meet the demands of the visually impaired. Other similar adjustments are also available by using the On-Screen Display (OSD) controls on the products.
- BenQ's monitors and projectors include user-selectable color controls, such as color temperature selections (Monitor: 5800K, 6500K, and 9300K, Projector: 5500K, 6500K, 7500K, and 9300K), with a wide range of contrast levels.
- BenQ's multimedia monitors and projectors usually have one or two speakers for audio performance which allow users (including the hearing impaired) to interact with the computer systems connected. Speaker controls are typically located on the front panel.
- The firmware of BenQ's monitors and projectors contains unique product information that helps computer systems to identify BenQ products and activate their Plug-and-Play function when connected.
- All BenQ's monitors and projectors are compatible with the PC99 standard. For example, connectors are colorcoded to help users easily connect products to computer systems correctly.
- Some models of BenQ's monitors and projectors contain additional USB and DVI ports for connection to more devices such as special headphones to assist the hearing impaired.
- All BenQ monitors and projectors come with user manuals on compact discs which could be easily read by commercial software such as Adobe Reader via a connected computer system. These documents are also available on BenQ's website (www.BenQ.com). Other types of documents may be available upon request.
- BenQ's customer service provides answers and assistance to all our customers through phone calls, facsimiles, emails, or websites.

India RoHs

Restriction on Hazardous Substances statement (India)

This product complies with the “India” E-waste Rule 2016” and prohibits the use of lead, mercury, hexavalent chromium, polybrominated biphenyls, or PolyBrominated Diphenyl Ethers in concentrations exceeding 0.1 weight% and 0.01 weight for cadmium except for exemptions set in Schedule 2 of the Rule.

FCC Statements

Federal Communications Commission (FCC) Notice (U.S. Only) WARNING: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant 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 in accordance with 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 receiving antenna.
- Increase the separation between the equipment and 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.

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

- This device may not cause harmful interference.
- This device must accept any interference received including interference that may cause undesired operation.

This device complies with Part 15, Subpart C, Section 15.225 of the FCC Rules. The FCC for this device is JVPRP7503NFC. If the FCC ID is not visible with the module is installed inside another device, then it must be still responsible for the FCC compliance requirement of the end product which refers to the enclosed module and it also must display a label, such as the following: Contains Transmitter Module FCC ID: JVPRP7503NFC or contains FCC ID: JVPRP7503NFC.

- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Supplier's Declaration of Conformity

- **Responsible Party Name:** BenQ America Corp.
- **Address:** 3200 Park Center Drive, Suite 150, Costa Mesa, CA 92626
- **Telephone:** (714) 559-4900
- Declares below product complies with FCC Part 15 Subpart B
- **Product name:** NFC Module
- **Model number:** RP7503NFC



Supplementary information

The host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. The final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

DECLARATION OF CONFORMITY

This device complies with the requirements set out in the Council Directives on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (2014/30/EU), Low Voltage Directive (2014/35/EU), the Restriction of The Use of Certain Hazardous Substances in Electrical And Electronic Equipment Directive (2011/65/EU), Turkish EEE and ErP Directive, Commission Regulation (EC) No 1275/2008 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment, and the Directive 2009/125/EC of the European Parliament and of the council establishing a framework for the setting of ecodesign requirements for energy-related products.

Depending on the amount of the specific chemical substances used, two different kinds of marks are used for distinction:

	R Mark: R Mark is used if the amount of the specific chemical substances is over the specified standards.
	G Mark: G Mark can be used voluntarily if the amount of the specific chemical substances are under the specified standards (excluding the exceptions as specified by the R Mark standards).

- **Note 1:** For more information about BenQ's environmental activities, please visit www.BenQ.co.jp/environment.
- **Note 2:** For more information about BenQ products, please visit www.BenQ.co.jp
- **Note 3:** For more information about JIS C 0950 (J-Moss), please visit JEITA's website http://210.254.215.73/jeita_eps/jmoss200512.html.

RoHS Statement

This product is compliant to implemented RoHS (Restriction of Hazardous Substances) type regulations worldwide, including but not limited to China, India, Japan, Korea and European Union.

Marking for the content condition of chemicals

Coarse Classification	Chemical Substance Table					
	Pb	Hg	Cd	Cr+6	PBB	PBDE
LCD Panel	O	O	O	O	O	O
Plastics	O	O	O	O	O	O
Metals	O	O	O	O	O	O
PCBA	Exempted	O	O	O	O	O
Chamber speaker	O	O	O	O	O	O
Remote control	Exempted	O	O	O	O	O
Touch pen	O	O	O	O	O	O
Power cord	Exempted	O	O	O	O	O
Other cables	Exempted	O	Exempted	O	O	O
<p>*: PCBA consisted of the bare printed circuit board, soldering, and its surface-mounted elements, such as resistors, capacitors, arrays, connectors, chips, etc.</p> <p>NOTE 1: The “O” indicates that the percentage content of the substance to be calculated is not exceeding the reference percentage content of the EU RoHS directive (2011/65/EU).</p> <p>NOTE 2: The “exempted” item means that the specified chemical substance corresponds to the items exempted by the EU RoHS directive (2011/65/EU).</p>						

WEEE directive

Disposal of Waste Electrical and Electronic Equipment and/or Battery by users in private households in the European Union. This symbol on the product or on the packaging indicates that this can not be disposed of as household waste. You must dispose of your waste equipment and/or battery by handing it over to the applicable take-back scheme for the recycling of electrical and electronic equipment and/or battery. For more information about recycling of this equipment and/or battery, please contact your city office, the shop where you purchased the equipment or your household waste disposal service. The recycling of materials will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and environment.

Battery

Recycling information: See <http://www.benq.com/support/recycle> for details.

E-Waste Declaration for India

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about E-waste please visit <http://www.benq.com/support/recycle> to know where you can drop off your waste equipment for recycling in India please contact on below given contact details.

- **Helpline number:** Centralised E-Waste Collection Centre
- The centralized E-waste collection center
- **Address:** C-83, Basement, DDA Shed Okhla Industrial Area, Phase – 1, New Delhi – 110020
- **E-mail:** perfectenterprises.del@gmail.com
- **TEL:** +91 011 40578436

For UK only

- The mains lead (power cable) on the equipment comes with a molded plug incorporating a fuse.
- The rating of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved by ASTA or BSI to BS 1362 of the same rating must be used.
- If the plug has a detachable fuse cover, remember to place the fuse cover back if you need to change the fuse.
- Do NOT use a plug without the fuse cover. If the fuse cover is missing, contact your nearest BenQ Customer Service Center for assistance.


For NFC Product in Canada (English & French two versions)

This device complies with RSS210 of Industry Canada. This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable. Radiation Exposure Statement: The product complies with the Canada portable RF exposure limit set forth for an uncontrolled environment and is safe for intended operation as described in this manual. Further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such a function is available.





For NFC Products in the EU



BenQ declares that this product is in compliance with the essential requirements and other relevant provisions of Radio Equipment Directive (2014/53/EU).

Documents / Resources

	<p>BenQ RP7503NFC NFC Module [pdf] User Manual RP7503NFC, JVPRP7503NFC, NFC Module, RP7503NFC NFC Module</p>
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References

-  [BenQ Japan | _____](#)
-  [BenQ Japan | _____](#)
-  [LCD Monitors, Projectors, Speakers and Lighting | BenQ US](#)
-  benq.com/

-  benq.com/support/recycle
-  [Global Recycling Information | BenQ US](#)

Manuals+