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> Qotom Fanless Mini Industrial PC Q790X User Manual

Qotom Q790X

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Model: Q790X - Celeron J6412 Quad Core Processor

1. INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your Qotom Fanless Mini Industrial PC, Model Q790X. This device is designed for industrial and business applications, offering a compact, low-power, and reliable computing solution.

2. SAFETY INFORMATION

- Ensure the device is placed on a stable, flat surface to prevent accidental falls.
- Operate the device within the specified temperature and humidity ranges.
- Do not expose the device to water or excessive moisture.
- Use only the power adapter provided with the device.
- Avoid blocking the ventilation fins, even though it is a fanless design, proper airflow aids heat dissipation.
- Disconnect power before performing any maintenance or internal component installation.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Qotom Fanless Mini Industrial PC Q790X
- Power Adapter
- Heatsink (pre-installed or included for specific configurations)
- User Manual (this document)

4. PRODUCT OVERVIEW

The Qotom Q790X is a compact, fanless mini PC featuring a robust aluminum alloy enclosure. It is equipped with multiple connectivity options suitable for various industrial and business applications.

4.1 Front Panel



Image: Front view of the Qotom Q790X Mini PC, displaying the power button, reset button, and two COM ports (COM1, COM2).

4.2 Rear Panel



Image: Rear view of the Qotom Q790X Mini PC, featuring audio jacks (microphone, headphone), USB ports, two LAN ports, an HDMI port, DC 12V power input, and four additional COM ports (COM3, COM4, COM5, COM6).

4.3 Internal Layout



Image: Internal view of the Qotom Q790X motherboard, highlighting the DDR4 SO-DIMM RAM slot, mSATA SSD slot, and a 2.5-inch SATA data/power connector for additional storage.

5. SETUP

5.1 Connecting Peripherals

1. **Display:** Connect your monitor to the HDMI port on the rear panel.
2. **USB Devices:** Connect your keyboard, mouse, and other USB devices to the available USB ports.
3. **Network:** Connect an Ethernet cable to one of the LAN ports for wired network access.
4. **Serial Devices:** Connect any serial devices to the COM ports as required by your application.
5. **Audio:** Connect speakers or headphones to the audio output jack, and a microphone to the microphone input jack if needed.

5.2 Powering On

1. Connect the power adapter to the DC 12V input port on the rear panel.
2. Plug the power adapter into a suitable electrical outlet.
3. Press the power button located on the front panel. The power indicator light should illuminate.

5.3 Operating System Installation

The device typically ships with an inactive Windows 10 operating system for testing purposes. For full functionality and security, it is recommended to install a licensed operating system.

- The Q790X supports Windows 10, Windows 11, and various Linux distributions.

- To install an operating system, create a bootable USB drive with your preferred OS installer.
- Insert the bootable USB drive into a USB port.
- Power on the device and repeatedly press the **DEL** key (or **F2** depending on BIOS version) to enter the BIOS/UEFI setup.
- Navigate to the Boot menu and set your USB drive as the primary boot device.
- Save changes and exit BIOS. The system will boot from the USB drive, allowing you to proceed with the OS installation.
- **Note:** This device does not support Legacy Boot Mode. Ensure your OS installer is configured for UEFI boot.

6. OPERATING THE PC

6.1 Basic Operation

- Once the operating system is installed and configured, the Q790X functions like a standard desktop PC.
- Utilize the multiple LAN ports for network segmentation or multi-homing applications.
- The numerous COM ports are ideal for connecting industrial control devices, point-of-sale systems, or other serial peripherals.

6.2 BIOS/UEFI Settings

To access the BIOS/UEFI settings, power on the device and press the **DEL** key (or **F2**) repeatedly during startup. Here you can configure boot order, system time, and other hardware-related settings.

7. MAINTENANCE

7.1 Cleaning

- Ensure the device is powered off and unplugged before cleaning.
- Use a soft, dry cloth to wipe the exterior of the device.
- For stubborn dirt, slightly dampen the cloth with water; avoid harsh chemicals.
- Use compressed air to clear dust from the ventilation fins, ensuring optimal passive cooling.

7.2 Component Upgrades

The Q790X allows for upgrades to RAM and storage.

- **RAM:** The device has one DDR4 SO-DIMM slot, supporting up to 32GB of RAM. To upgrade, carefully open the chassis, locate the RAM slot, and replace the existing module with a compatible one.
- **Storage:** It comes with an mSATA SSD. An additional 2.5-inch SATA drive can be installed for expanded storage. Ensure the device is powered off and unplugged before opening the chassis for upgrades.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on	No power, faulty adapter, loose connection	Check power cable and adapter connection. Ensure outlet is functional. Try a different power adapter if available.

Problem	Possible Cause	Solution
No display output	Loose HDMI cable, incorrect monitor input, monitor off	Ensure HDMI cable is securely connected. Verify monitor is on and set to correct input source.
Operating System not booting	Incorrect boot order, corrupted OS, no OS installed	Enter BIOS/UEFI to check boot order. Reinstall OS if necessary. Ensure OS is installed for UEFI mode.
Network connectivity issues	Loose Ethernet cable, driver issues, network configuration	Check Ethernet cable connection. Verify network settings in OS. Install or update network drivers.
System runs slowly	High CPU/RAM usage, insufficient storage, overheating	Check task manager for resource usage. Ensure adequate ventilation. Consider RAM or SSD upgrade if consistently slow.

9. SPECIFICATIONS

Feature	Detail
Model	Q790X
Processor	Intel Celeron J6412 Quad Core, 2.0 GHz (up to 2.6 GHz), 1.5M Cache, 10W TDP
Graphics	Intel UHD Graphics
RAM	4GB DDR4 SO-DIMM (1 slot, max 32GB)
Storage	64GB mSATA SSD (expandable with 2.5" SATA drive)
Operating System (Pre-installed)	Inactive Windows 10 (Supports Windows 10/11, Linux)
LAN Ports	2x Gigabit Ethernet
COM Ports	6x RS232 (DB9)
USB Ports	Multiple USB ports (specific count may vary by configuration)
Video Output	1x HDMI
Audio	Microphone input, Headphone output
Cooling	Fanless design
Enclosure Material	Aluminum Alloy
Dimensions	178 x 111 x 52 mm (approx. 7 x 4.4 x 2 inches)
Power Input	DC 12V

10. WARRANTY INFORMATION

Qotom products typically come with a standard manufacturer's warranty. Please refer to the warranty card included with your purchase or visit the official Qotom website for detailed warranty terms and conditions. Keep your proof of purchase

for warranty claims.

11. SUPPORT

For technical assistance, troubleshooting, or further inquiries regarding your Qotom Fanless Mini Industrial PC Q790X, please contact Qotom customer support through their official website or the contact information provided with your product documentation.

Official Website: www.qotom.com (Please verify the exact URL from your product packaging or official sources.)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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