1.2 Important User information

Hardware manual

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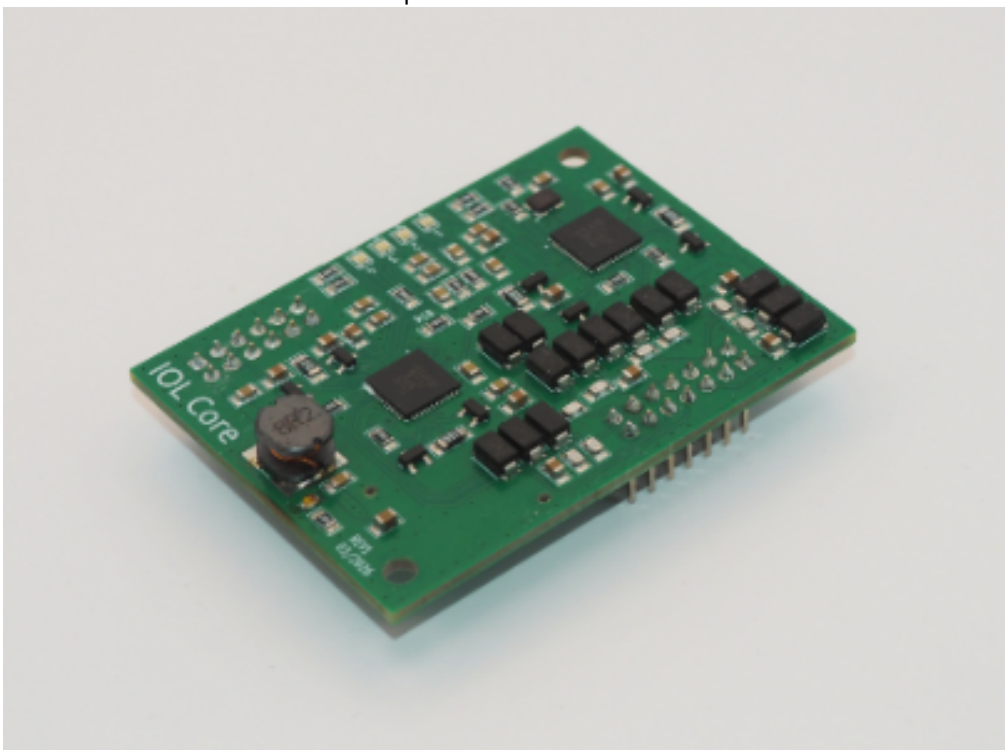


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1.2 Important User information

Please note that the information and procedures described in this manual are subject to change without prior notice. We continuously strive to improve our products and services, which may result in updates, product modifications and modifications to the content provided herein.

As a user of our product, it is important to acknowledge that you are responsible for following all relevant local laws, standards, and regulations applicable to your usage. These laws, standards, and regulations may vary depending on your location and the intended use of the product. It is your responsibility to ensure compliance with such requirements.

While we make every effort to provide accurate and up-to-date information, we cannot guarantee that the content of this manual will always reflect the latest developments or changes. Therefore, we encourage you to regularly check for updates and revisions to ensure that you have the most current information available.

By using our product and following the procedures outlined in this manual, you agree to accept responsibility for your actions and to comply with all applicable laws, standards, and regulations. Please carefully read the following safety instructions. If you have any questions or concerns regarding the information provided in this manual, please contact our customer support team for assistance.

General Safety



- Read this manual carefully before installing or operating the device. Keep the manual accessible for future reference.
- Only trained personnel should install and operate this device. Unauthorized handling may result in injury or damage to the equipment.
- Follow all safety labels and symbols on the device and in this manual.

Electrical Safety



- Ensure the device is connected to a properly rated power source, as specified (24V DC ±20%). Improper voltage can cause device failure or fire hazards.
- Avoid operating the device in wet or damp environments to prevent electric shock or short-circuiting.
- Disconnect the power supply before cleaning, servicing, or opening the device enclosure. Never attempt to repair internal components without authorization.

Device Environment



- Operate the device only within the specified temperature range (-25°C to 55°C). Exceeding this range may reduce performance or cause permanent damage.
- Install the device in a location that allows adequate ventilation and prevents overheating. Avoid placing it near heat sources.
- Mount the device securely on a DIN rail to prevent accidental disconnection or damage.

Protection Against Device Overload



- Avoid exceeding the maximum power supply current of 2.8A and port output limits (450mA per port on L+ and 350mA on C/Q).
- If the device shows any signs of overheating, smoke, or abnormal noise, immediately disconnect it from the power source and contact customer support.

Cybersecurity Considerations



- This device is designed for operation exclusively within isolated, closed networks and should never be connected directly to publicly accessible networks or the internet. Exposure to public networks significantly increases security risks and vulnerability to unauthorized access.
- Implement appropriate cybersecurity measures including network segregation, access control systems, and regular security audits to protect against potential threats. Use of firewalls, VPNs, or air-gapped solutions is strongly recommended.
- Always update firmware to the latest version as provided by the manufacturer. Outdated firmware may contain security vulnerabilities that could be exploited by malicious actors.
- Restrict physical and digital access to the device to authorized personnel only, and implement strong password policies and multi-factor authentication where supported. Default credentials must be changed immediately after installation.
- The manufacturer assumes no liability for security breaches, data loss, or operational disruptions resulting from improper network configuration or inadequate security measures.

Limitations on Use



- This device is intended for industrial applications and is unsuitable for fail-safe or life-support applications. It should not be used in environments where device failure could lead to severe injury, loss of life, or significant environmental damage.
- Always consider the specific use case and ensure the device is adequately tested within the intended application.

Not for Critical Applications

The Pinebox as device described in this manual (printed and online version), including all associated hardware and software components, shall not be used for fail-safe, life-supporting, or other critical applications where the failure of the device could result in significant harm, injury, loss of life, or catastrophic damage.



While every effort has been made to design and manufacture the device to high standards of reliability and performance, it is not intended for use in situations where its failure could have severe consequences. Such critical applications may include, but are not limited to, medical devices, transportation systems, industrial control systems, and emergency response systems.

Using the device in critical applications could lead to unpredictable outcomes, including system failures, data loss, or malfunction, which may pose serious risks to safety, health, or property. Therefore, it is imperative that the device is only employed in non-critical applications where the potential impact of its failure is minimal.

By using the device, you acknowledge and accept this warning, and you agree to indemnify and hold harmless the manufacturer and its affiliates from any liabilities, damages, or losses arising from the improper use of the device in critical applications.

Handling and Disposal



Dispose of the device in accordance with WEEE regulations (see Disposal section).

Handle the device with care to avoid physical damage, particularly to connectors and ports.