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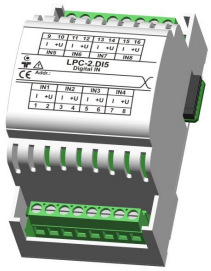
LPC-2.MM1
PLC Main
Control Module



Smarteh LPC-2.MM1 PLC Main Control Module User Manual

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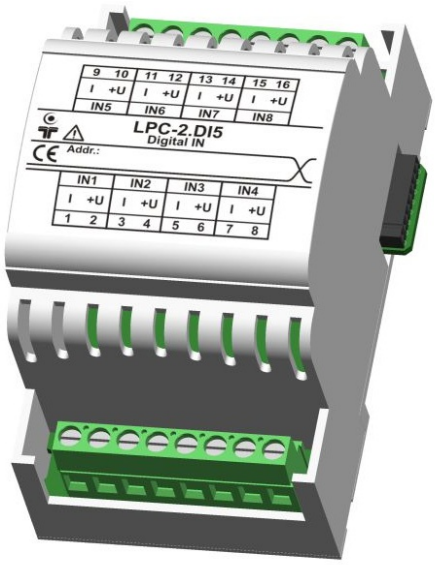


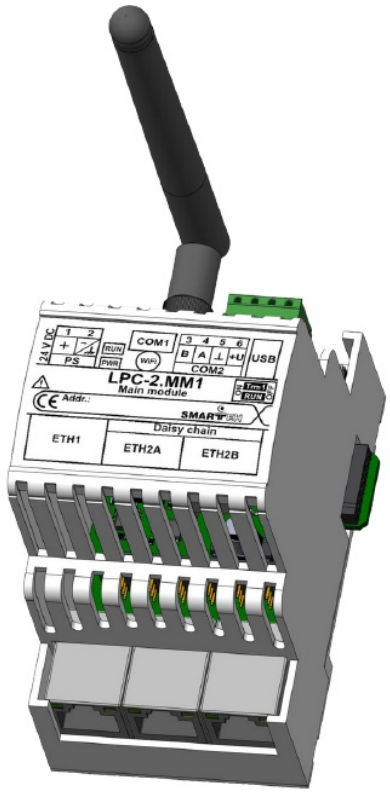
Product Information

Specifications

- **Product Name:** LPC-2.MM1
- **Product Type:** PLC main control module
- **Connectivity:** Ethernet Daisy chain, Gigabit Ethernet port
- **Features:** Fail-safe functionality, compact Arm-based design
- **Compatibility:** Modbus TCP/IP, BACnet IP, Modbus RTU

Product Usage Instructions

INTRODUCTION
Discover the revolutionary Smarteh LPC-2.MM1 PLC main control module that sets a new standard for performance, scalability, and versatility in building and industrial automation. The LPC-2.MM1 features a compact, Arm-based System on Module (SoM) package, delivering enhanced computing power and control with a wide array of advanced features. Powered by an ARM architecture processor and a Linux-based OS, the LPC-2.MM1 is future-proof, enabling seamless interface connections and core SoM module upgrades without hardware changes. Effortlessly expand your capabilities by connecting additional input and output modules via an internal bus connector on the right side of the LPC-2.MM1. Unleash seamless connectivity with Ethernet Daisy chain topology. Experience the next evolution in networking with Ethernet Daisy Chain Topology—a revolutionary solution designed to simplify and streamline your network infrastructure like never before. The LPC-2.MM1 is a connectivity powerhouse, featuring two Ethernet Daisy chain ports with fail-safe functionality through an integrated switch for uninterrupted operation during power failures. Additionally, LPC-2.MM1 has a fast Gigabit Ethernet port for independent networking with BMS, third-party PLCs, cloud, or other data acquisition and control systems.



KEY FEATURES & BENEFITS

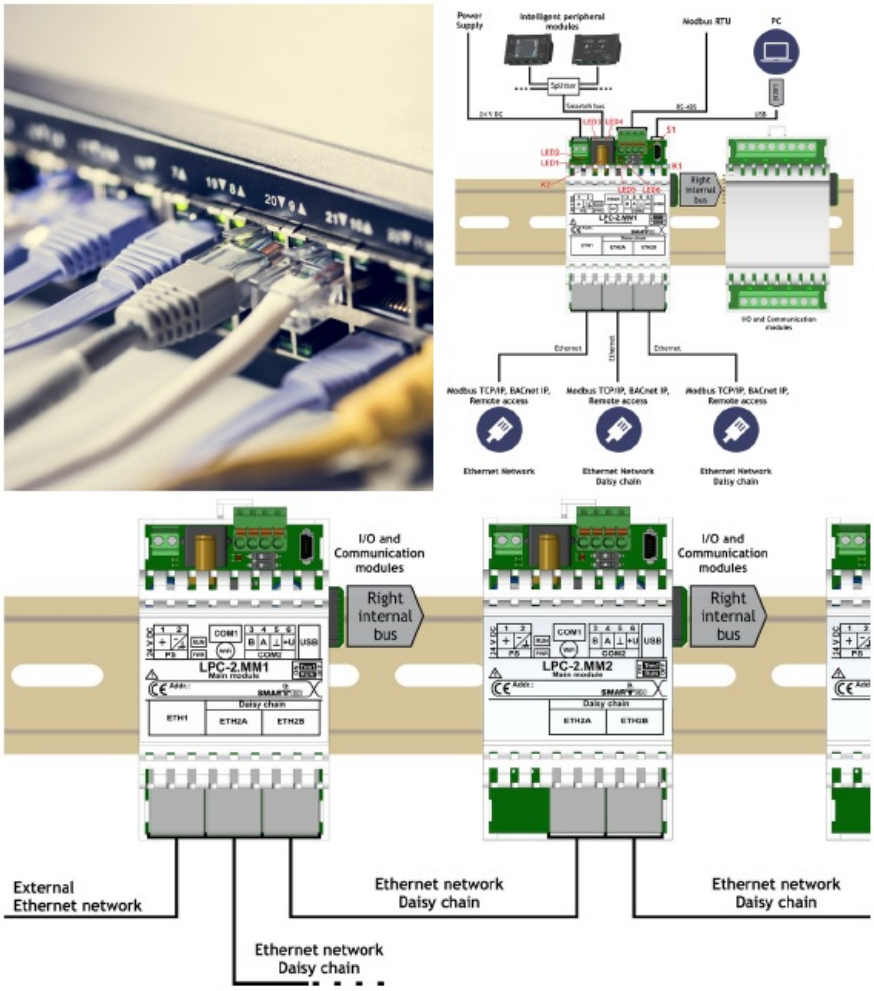
- **Unmatched automation performance in a compact Arm-based SoM**
  The LPC-2.MM1 PLC-based main control module is powered by an advanced i.MX6 Single (ARM® Cortex™ – A9) @ 1GHz CPU ensuring robust performance for a variety of automation tasks. With its high processing speed and efficiency, this SoM handles complex computations and real-time processing with ease.
- **Discover Inkscape: A professional and open-source vector GUI editor**
  Experience the ultimate design freedom with Inkscape, the versatile opensource vector GUI editor that empowers you to create stunning graphical interfaces. Seamlessly integrated with Smarteh IDE, this powerful platform offers limitless possibilities and unmatched flexibility for UI design and PLC functionality. Say goodbye to costly licenses and fees, and embrace a world where your creativity knows no bounds.
- **Connect remotely to a PLC in the field via a web browser**
  Access the LPC-2.MM1 PLC from any device through a web browser, utilizing a secure VPN connection or simplified Broadcast transmission.

- **Efficient and scalable connectivity**

  Ethernet daisy chain enables seamless communication between devices, minimizing latency, ensuring consistent signal strength, and allowing for easy network expansion, thus optimizing overall system performance and scalability. Designed with scalability in mind, the LPC-2.MM1 allows for easy expansion and integration as system requirements grow. Ideal for both small-scale projects and large industrial applications, providing flexibility and future-proofing your investment.
- **Versatile connectivity**

  LPC-2.MM1 supports a wide range of connectivity options, including Ethernet connectivity with Modbus TCP/IP Slave (server) and/or Master (client) functionality, BACnet IP (B-ASC), web client with SSL support, Modbus RTU Master or Slave facilitating seamless integration into existing networks.
- **Compact and robust design**

  The single compact LPC-2.MM1 main control module minimizes space requirements, making it perfect for applications with limited space. Built to withstand harsh industrial environments, ensuring reliable performance in challenging conditions.



KEY APPLICATIONS

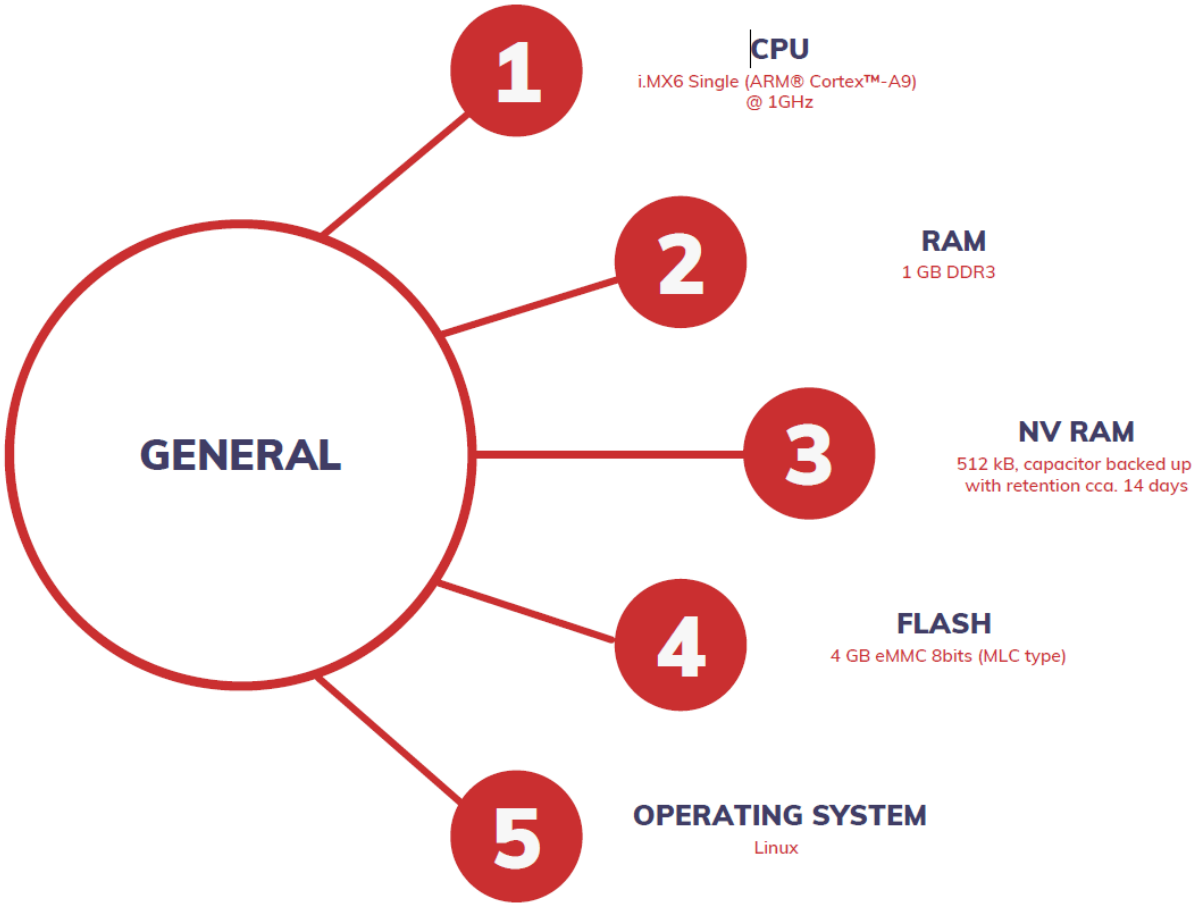
- **Building automation**

  Ideal for smart building solutions, HVAC systems, lighting control, and energy management. Enhances building efficiency, comfort, and security through intelligent automation.
- **Industrial automation**

  Perfect for manufacturing, process control, and industrial IoT applications. Optimizes production processes, reduces downtime, and improves overall productivity.
- **Smart infrastructure**

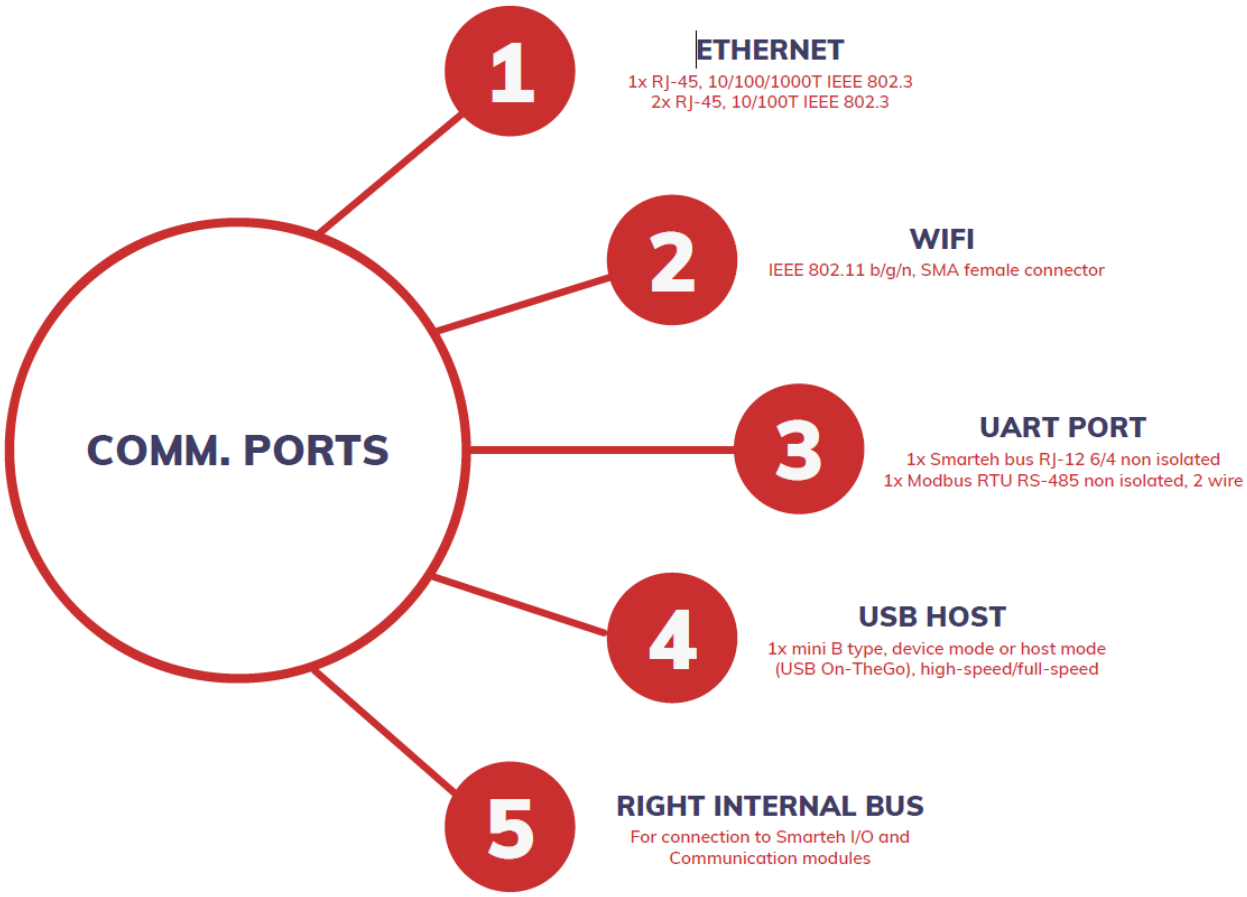
  Suitable for smart city projects, including traffic management, smart grids, and public safety systems. Supports real-time data analysis and decision-making, enhancing urban living standards.

Connectivity Setup
Connect the LPC-2.MM1 to your network using the Ethernet Daisy chain ports or the Gigabit Ethernet port for independent networking.



Software Integration

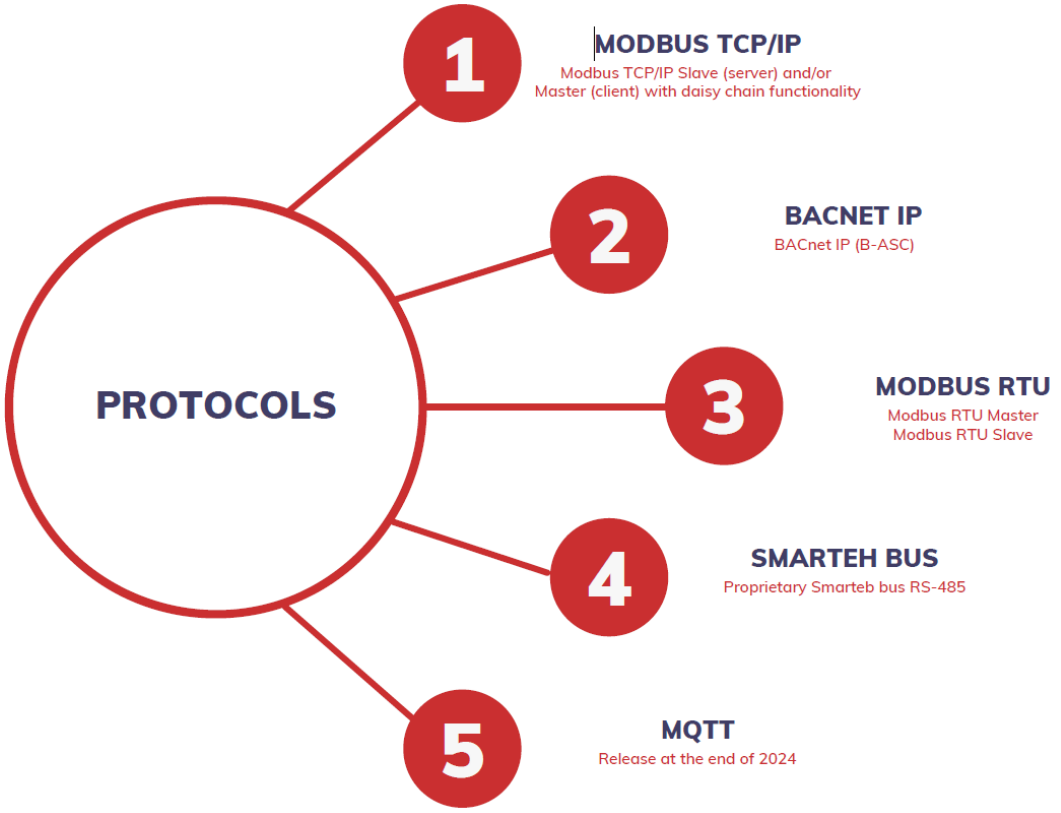
Integrate the LPC-2.MM1 with your existing network using Modbus TCP/IP, BACnet IP, or Modbus RTU protocols for seamless communication.



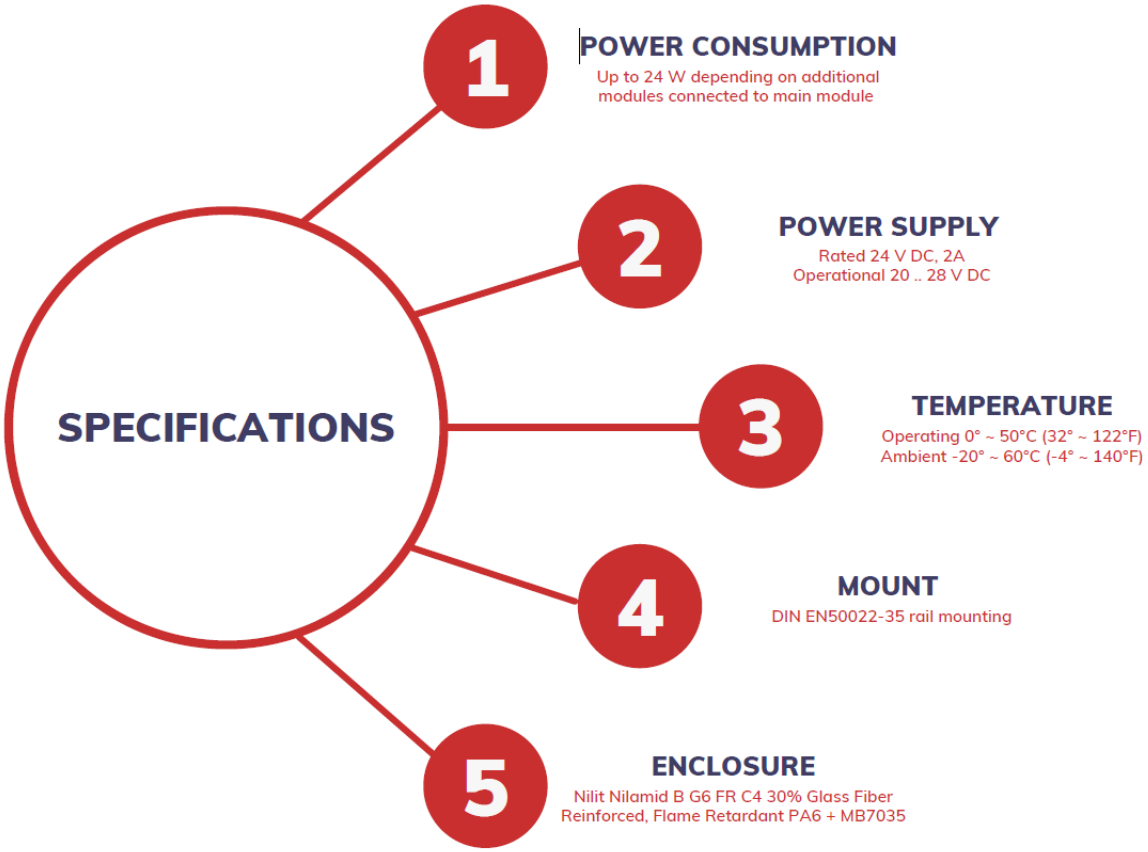
Remote Access

Access the PLC remotely via a web browser using a secure VPN connection or Broadcast transmission for

convenient monitoring and control.



Design and Configuration
Utilize Inkscape for designing graphical interfaces and Smarteh IDE for configuring PLC functionality to suit your specific needs.



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USER MANUAL

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Frequently Asked Questions

Q: Is the WiFi antenna included in the package?
A: No, the WiFi antenna is not included in the scope of supply for LPC-2.MM1.

Q: What are the key applications of LPC-2?MM1?
A: LPC-2.MM1 is ideal for building automation applications such as smart building solutions, HVAC systems, lighting control, and energy management.

Documents / Resources

	Smarteh LPC-2.MM1 PLC Main Control Module [pdf] User Manual LPC-2.MM1 PLC Main Control Module, LPC-2.MM1, PLC Main Control Module, Control Module, Module

References

- User Manual

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