

Technical Manual for the RTCU A9i LAN

Version 1.00



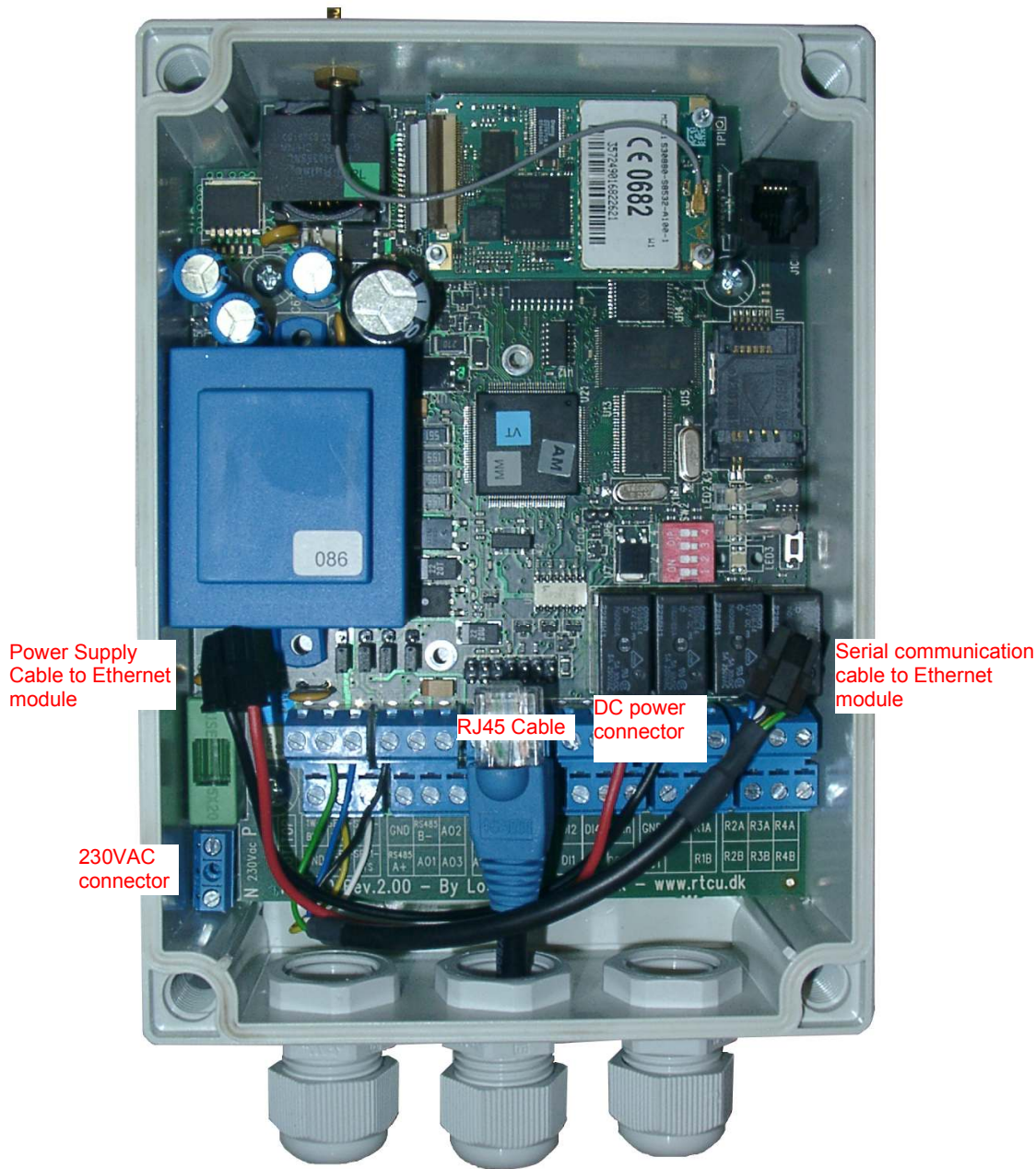
Introduction

This manual contains technical documentation allowing easy installation and use of the RTCU A9i LAN unit. The aim of this document is not give a detailed description of the RTCU A9i LAN product, but how to integrate the Ethernet module (ETH100) in the A9i. For further technical details on RTCU A9i and the Ethernet module please refer to their respective technical manuals. For information on the programming and software configuration of the A9i LAN please refer to the RTCU IDE documentation.

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Graphical View



The RTCU A9i LAN product prepared with connections for the ETH-100 Ethernet module.



The ETH-100 Ethernet module mounted in the lid of the RTCU A9 unit.



The RTCU A9i LAN product as delivered from factory with the Ethernet module connected.

Connections

Power Supply

The RTCU A9i LAN product is primarily designed to be AC-supplied. When AC power is supplied the DC IN connector on the RTCU A9i will supply the power to the Ethernet module. The red cable from the module is connected to DCin on the RTCU A9i, and black cable connected to GND.

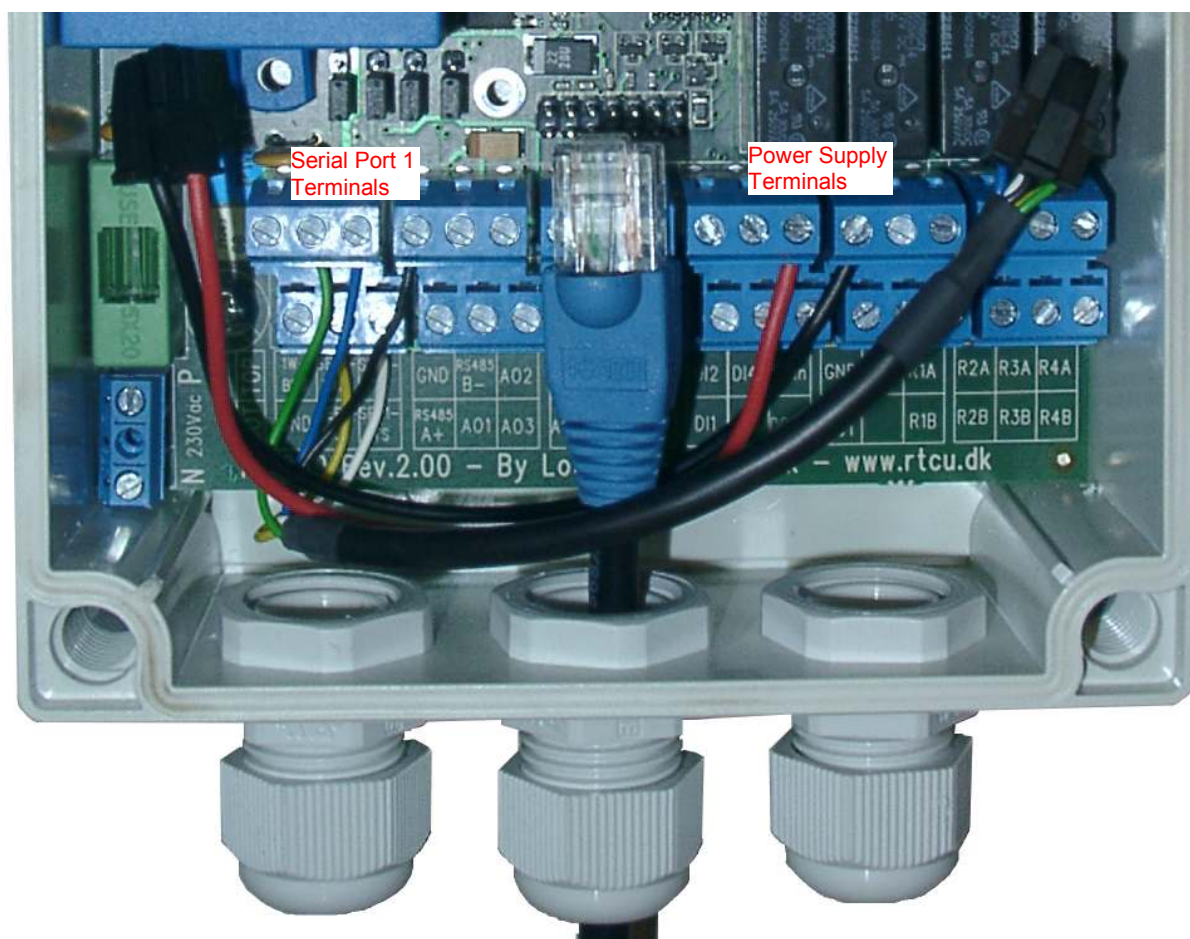
Ethernet Connection

A standard RJ45 Ethernet (10/100 Mbit) cable must be connected to the external Ethernet connector on the RTCU A9i LAN product. The default set-up is DHCP, but this can be changed in the LAN configuration of the Ethernet module. Please refer to the ETH-100 documentation for more information.

External Connections

For external connections please refer to RTCU A9i technical manual.

Internal Connections



Ethernet module serial communication

ETH-100 is connected to Serial Port 1 on the RTCU A9i. Color coded serial cable connection to the A9i terminals are as following:

Colour	Terminal
Yellow	SER1-RXD
Green	SER1-TXD
White	SER1-CTS
Blue	SER1-RTS
Black	GND

Configuration

For detailed configuration of ETH-100 please refer to the respective technical manual. Please note, that the highest allowed communication speed of the Serial Port 1 is **57600** bps. When the ETH-100 configured manually the baud rate must be **57600** instead of 115200 as stated in section “Configuring the module After Reset” in the ETH-100 technical manual.

Specification

For technical specification please refer to the respective technical manuals.