

RouteMagic

RMC-MP200 Instruction Manual

Thank you very much for choosing our RouteMagic Controller (RMC). Before using RMC, be sure to read this document and understand how to operate and the relevant instructions completely.

Before Use

- Our guarantee does not apply to any trouble nor accident arisen from failure to comply with the instructions described in this document. Be sure to read this manual and keep it for future reference.
- Any copy, disassembling, decompiling, or reverse engineering of this device or our proprietary software incorporated into this device is strictly prohibited.
- Newest software and related manuals can be downloaded from the following our support site.

<http://www.routrek.co.jp/en>

1 Checking Contents of Package

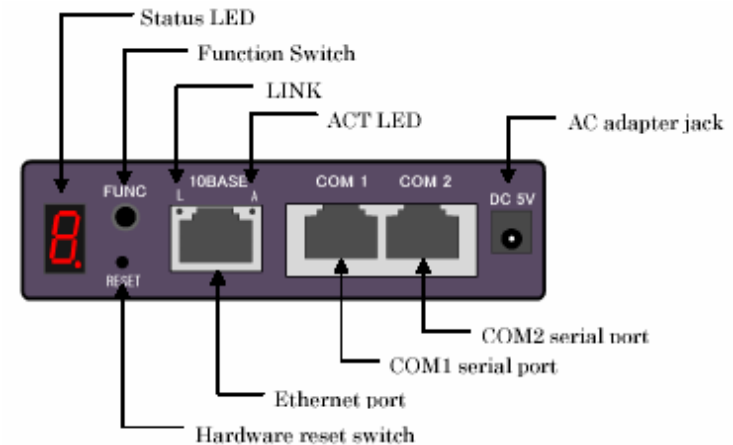
RouteMagic Controller (RMC) is delivered to you together with accessories.

- | | |
|--|---------|
| • RouteMagic Controller (RMC-MP200) main unit | 1 unit |
| • AC Adapter | 1 piece |
| • RJ-45-ROLLED serial cable (2m) | 1 piece |
| • RJ-45-DB9 socket conversion connector | 1 piece |
| • RJ-45-DB9 plug conversion connector | 1 piece |
| • Instruction manual (this document) | |
| • Tab to prevent an AC adapter from coming off | 1 piece |
| • Screw for tab | 1 piece |

2 Specification and Name of Component

RMC-MP200 Specifications for Main Unit

Interface	Serial port EIA-RS232D (RJ-45) x2
Network port	IEEE802.3 10BASE-T (RJ-45) x1
Display function	Status LED (7-segment), LINK LED, ACT LED
Power supply	DC 5V (AC adapter rated input AC100V-120V 50/60Hz)
Power consumption	DC 5V 1A
Operating conditions	Temperature 0 to 40°C humidity 15 to 85%, no condensation
EMI	VCCI Class B
Outside dimension	85x110x23 (mm)(WxDxH)
Weight	140g



Name	Function
Status LED	Shows the operation status of RMC.
Function switch	Provides the function to shut down/reboot RMC and to display/set every status..
LINK LED	Turns on when a link with 10BASE-T has established.
ACT LED	Blinks when receiving/sending data through 10BASE-T.
Hardware reset switch	Reboots (restarts) RMC. Shutdown is not executed.
Ethernet port	Ethernet port to connect a network.
COM1 serial port	Serial port (to connect a target device).
COM2 serial port	Serial port (to connect a target device / modem / serial console terminal).

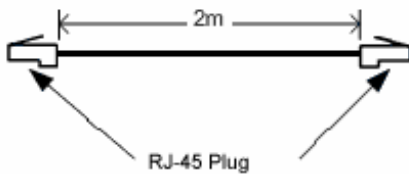
3 Specifications for Cable/Connector

Pin Layout of Ports COM1, COM2



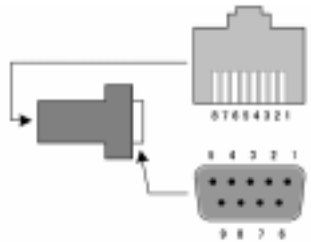
Pin Number	Signal	In/Out
1	RTS	OUT
2	DTR	OUT
3	TXD	OUT
4	GND	-
5	GND	-
6	RXD	IN
7	DSR	IN
8	CTS	IN

RJ-45 ROLLED Serial Cable (Cross Cable)



RJ-45	RJ-45
1-----	8
2-----	7
3-----	6
4-----	5
5-----	4
6-----	3
7-----	2
8-----	1

RJ-45-DB-9 Socket Conversion Connector (for straight/serial terminal connection)

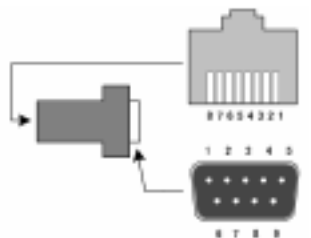


Pin Layout of RJ-45 connector (Front view)

Pin Layout of D-sub9 connector (Front view)

RJ-45 (Female)	D-sub9 (Female)	Signal
1	7	CTS
2	4	DSR
3	3	RXD
4	5	GND
5	5	GND
6	2	TXD
7	6	DTR
8	8	RTS

RJ-45-DB-9 Plug Conversion Connector (for cross/modem connection)



Pin Layout of RJ-45 connector (Front view)

Pin Layout of D-sub9 connector (Front view)

RJ-45 (Female)	D-sub9 (Male)	Signal
1	8	CTS
2	6	DSR
3	2	RXD
4	5	GND
5	5	GND
6	3	TXD
7	4	DTR
8	7	RTS

4 Installation of RMC-MP200

RMC-MP200 can be used under the following condition.

Requirements of Target Device

- A console port of the device meets the RS-232C/D specifications.
- A console port of the device functions as a dumb terminal (ASCII character output).
- The device outputs an error message and any other log to a console port.

Requirements of RMC Network Connection

- TCP/IP network (IP version 4).
- IP reachable to a host on Internet with SMTP.

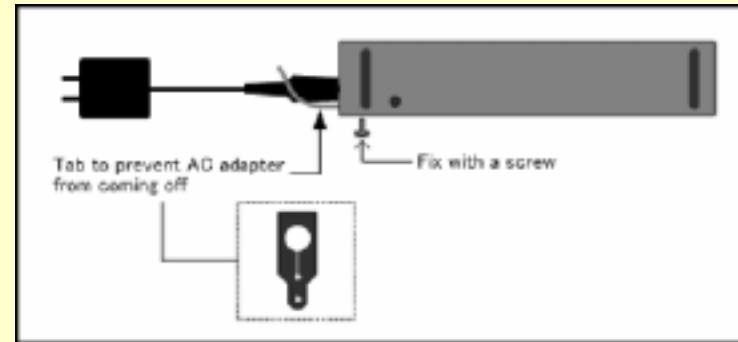
Recommended RMC Network Connection

- IP reachable to a DNS server set properly.
- Communication can be made directly to MTA (Mail Transfer Agent) to/from which a mail is sent. (No mail is received through a relay host nor POP.)
- An NTP server is available.
- A TFTP server is available (for saving configuration and upgrading).
- To connect RMC and RMS through Internet, use the authentication/decoding function for the communication between RMC and RMS.

Preventing Power Cable from Coming Off

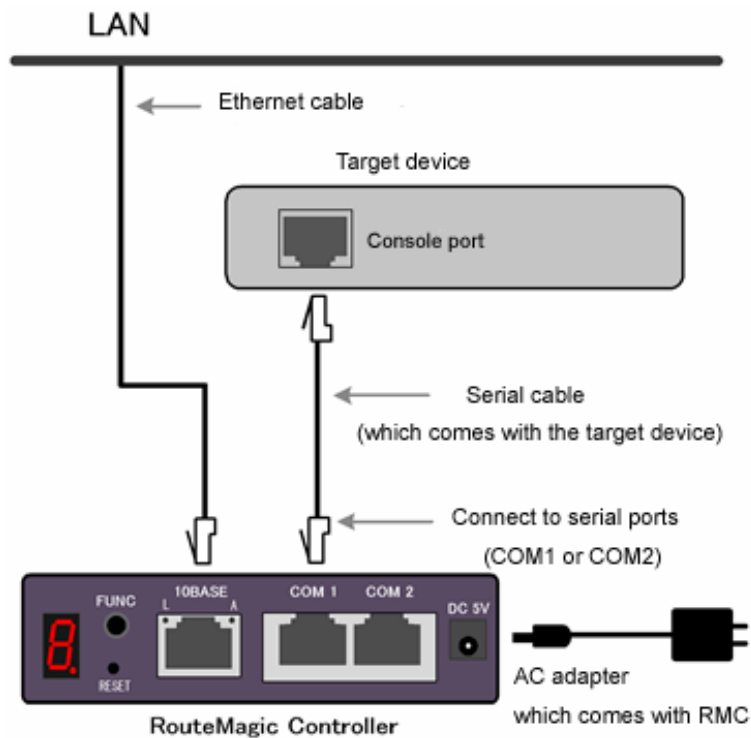
A tab to prevent an AC Adapter from coming off comes with RMC. To prevent the power supply from being interrupted unexpectedly, attach the tab to RMC in the steps below.


- (1) Attach the tab the AC adapter plug.
- (2) Connect the AC adapter to the adapter jack.
- (3) Fix the tab to RMC with a screw which comes with the tab.




Connection to Target Device and Network

- ① Connect a console port of the target device to the serial ports COM1 / COM2.
- ② Connect the Ethernet port ETH0 to LAN.
 - To connect the target device, use the serial cable which comes with each device.
 - When using the serial cable and conversion connector which come with RMC, refer to the description about cable/connector specifications in this document.

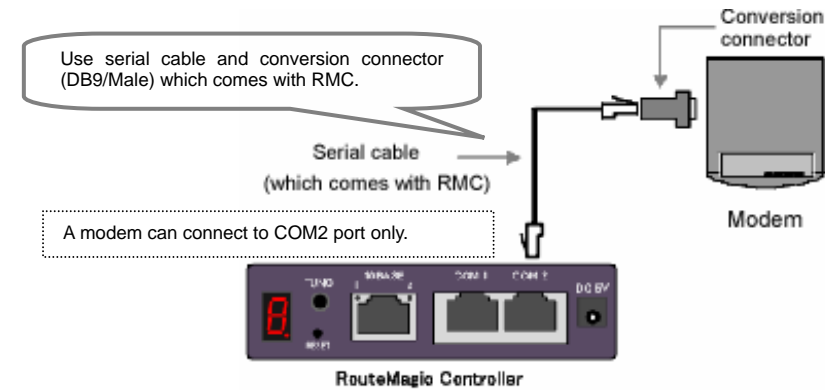


 When connecting the serial cable, be sure to turn off RMC and the connected device.

 To turn off the power supply of RMC, execute "shutdown" command.

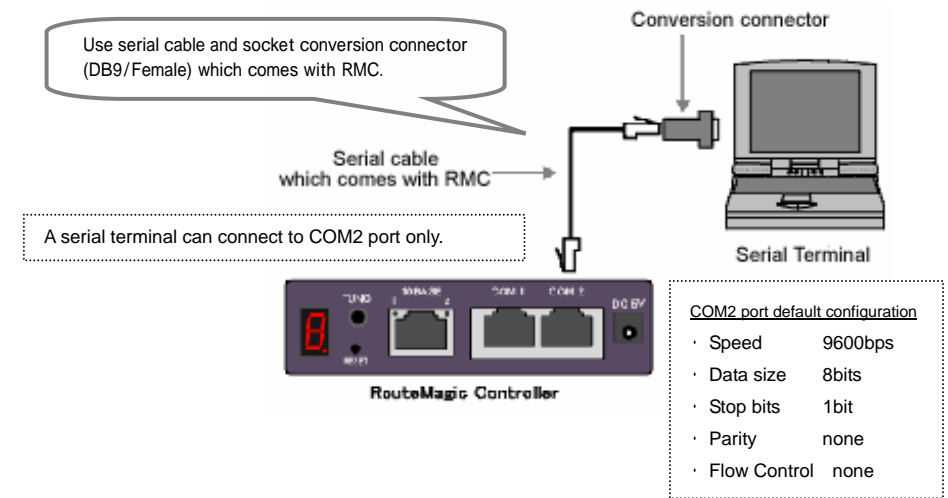
Modem Connection

When a modem is connected to RMC COM2 port, mail transmission and device operation is available via the modem even when a network failure occurs.



Serial Terminal Connection

Serial terminal (ASCII terminal, PC terminal emulator) can be used as a local console of RMC.



5 For Safety Operation

This device is a precision instrument. Before using it, read the instructions below carefully for correct operation.



WARNING

This device is designed for general office automation equipment. Do not connect this device to any equipment of which maximum reliability and safety are required, such as medical instrument which directly involves human lives. Please note that we are not in a position to take responsibility for any losses produced by an improper operation of this device.

When this device gives off a strange smell, when it overheats, when it produces smoke or when water or chemical agent penetrates it, unplug the device immediately, otherwise a fire may break out or you may get a shock. Remove this device and consult your local retailer or us.

Never open this device, touch any internal component nor modify the device, otherwise you may get a shock, the device may get out of order or a fire may break out. Please note that our guarantee does not apply to any trouble in this case even during the guarantee period.

Never damage, pull nor bend by force the power cable of this device, otherwise you may get a shock, the device may get out of order or a fire may break out.

This device is for domestic power supply specifications (AC110V and 60Hz). Never use any other power supply for this device, otherwise you may get a shock, the device may get out of order or a fire may break out.



CAUTION

The environmental conditions, including temperature and humidity, for this device are described in the device specification list of this instruction manual. Be sure to use this device in the rated range, otherwise a fire may break out or the device may get out of order.

Do not use this device in any improper place where the temperature fluctuates considerably or condensation occurs frequently, otherwise you may get a shock, a fire may break out, the device may get out of order or an error may occur in an operation. If condensation occurs, unplug the device and dry it completely, otherwise a fire may break out or the device may get out of order.

This device is designed for indoor use. Never this device in any dusty or exposed place, otherwise you may get a shock, the device may get out of order, a fire may break out or the device may be damaged.

Prevent foreign matter, including metallic material, dust and combustible material, from getting into the device or connectors, otherwise you may get a shock, a fire may break out or the device may get out of order.

If this device is used without human intervention for a long time, perform the maintenance and inspection periodically, otherwise a fire may break out, the device may get out of order or an error may occur in an operation.

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