Renesas Starter Kit+ for RX65N-2MB
CPU Board Schematics

Note:

C : Capacitor
D : Diode
R : Fixed Resistor
RV : Potentiometer
MR : Resistor Array
L : Inductor
U : Integrated Circuit
X : Crystal, Oscillator
RES : Reset Switch
SW : Switch
LED : Light Emitting Diode
PWR : Power Jack
J : Connector, Jumper

* "DNF" marking means that component is not fitted by default.

Board Code:

RTK50565N2C00000BE : RSK+RX65N-2MB MP Board

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Note:
Microcontrollers pins are not described by the full pin function.
For full pin function details, refer to RX65A & RX65B datasheet.
Warning:
NEVER FIT R133 and R134 simultaneously.

R20UT3887EG0200 2.00
RSK+RX65N-2MB [Pmod, IIC EEPROM]

Friday, November 10, 2017

PMOD1: Angle type connector
PMOD2: Vertical type connector (spare)

PMOD2: PMOD_PTH_V (DNF)

R133 0R (DNF)
R134 0R
R407 0R (DNF)
R401 4K7
R400 100K

PMOD1-MISO
PMOD1-IO3
PMOD1-IO2
PMOD1-IO1
PMOD1-IO0
PMOD1-SCK
PMOD1-MOSI
PMOD1-CS

PMOD2-MISO
PMOD2-IO3
PMOD2-IO2
PMOD2-IO1
PMOD2-IO0
PMOD2-SCK
PMOD2-MOSI
PMOD2-CS

E2P-SDA
E2P-SCL

Device address
A2 A1 A0
0 0 1

Warning:
NEVER FIT R133 and R134 simultaneously.
Note:

*Note: *JA1-APP1(DNF) and JA2-APP3(DNF) are not standard RSK App Headers.

**RSK+RX65N-2MB** [Application Headers]

When connecting the HMI Expansion Board (R0K50564MB001BR), Test points TP1 and TP2 on the expansion board andethernet connector on the RSK board interfere physically.

Please remove the test points TP1 and TP2, when you connect the expansion board.

*Note: *YG01-ADDON TFT Board requires the signals on TFT header, and the following signals.
Warning:
When the voltage of your PDC target system differs from this board, please do not apply a voltage power to your system directly.
When the voltage of your PDC target system differs from this board, please do not fit resistor R190. Please fit pull-up resistor on your PDC target system.
On-board TFT

Note:
On-board TFT circuit is the design based on NHD-4.3-480272EF-ATXL#-CTP (4.3' 480x272 with Capacitive Touch).

Display Interface (Driver IC: HX8257-A)

Capacitive Touch Interface (Driver IC: FT5306)

Device address for touch panel driver

Renesas Electronics Corporation
## Revision History

<table>
<thead>
<tr>
<th>Rev</th>
<th>Date</th>
<th>Description</th>
</tr>
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<td>2.00</td>
<td>10.11.2017</td>
<td>Changes DIP switch (SW4) setting. (SW4.4=OFF -&gt; SW4.4=ON)</td>
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Changes company name.