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April 1st, 2010
Renesas Electronics Corporation

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Users Manual

QB-788002-EA-01T

Exchange adapter

(On board LIN Transceiver & Voltage Regulator)

Target Device:

UPD788001A

UPD788002A

UPD78F8002A

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第1章 概説

QB-788002-EA-01T は、電源と LIN Transceiver 機能を搭載したエクステンジ・アダプタです。QB-78K0KX1H と組み合わせることで、

μPD788001A/788002A/78F8002A を用いたシステム開発において、本製品と QB-78K0KX1H を組み合わせるとハードウェアおよびソフトウェアを効率的にデバッグできます。

CHAPTER 1 GENERAL

The QB-788002-EA-01T is an exchange adapter on board voltage regulator and LIN transceiver function.

Hardware and software can be debugged efficiently in the development of systems in which the μPD788001A/788002A/78F8002A are used by combining with this product and QB-78K0KX1H.

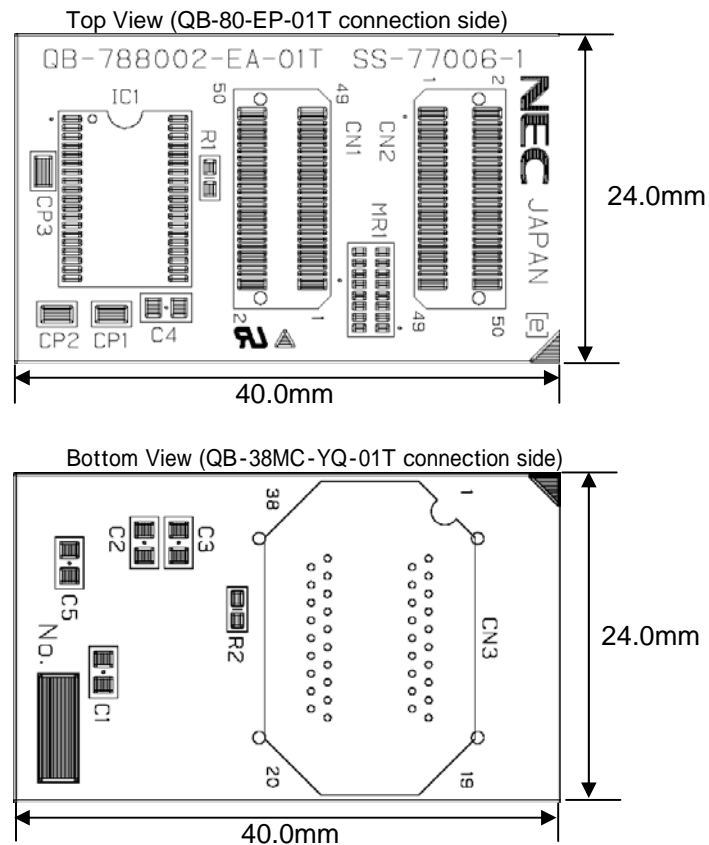
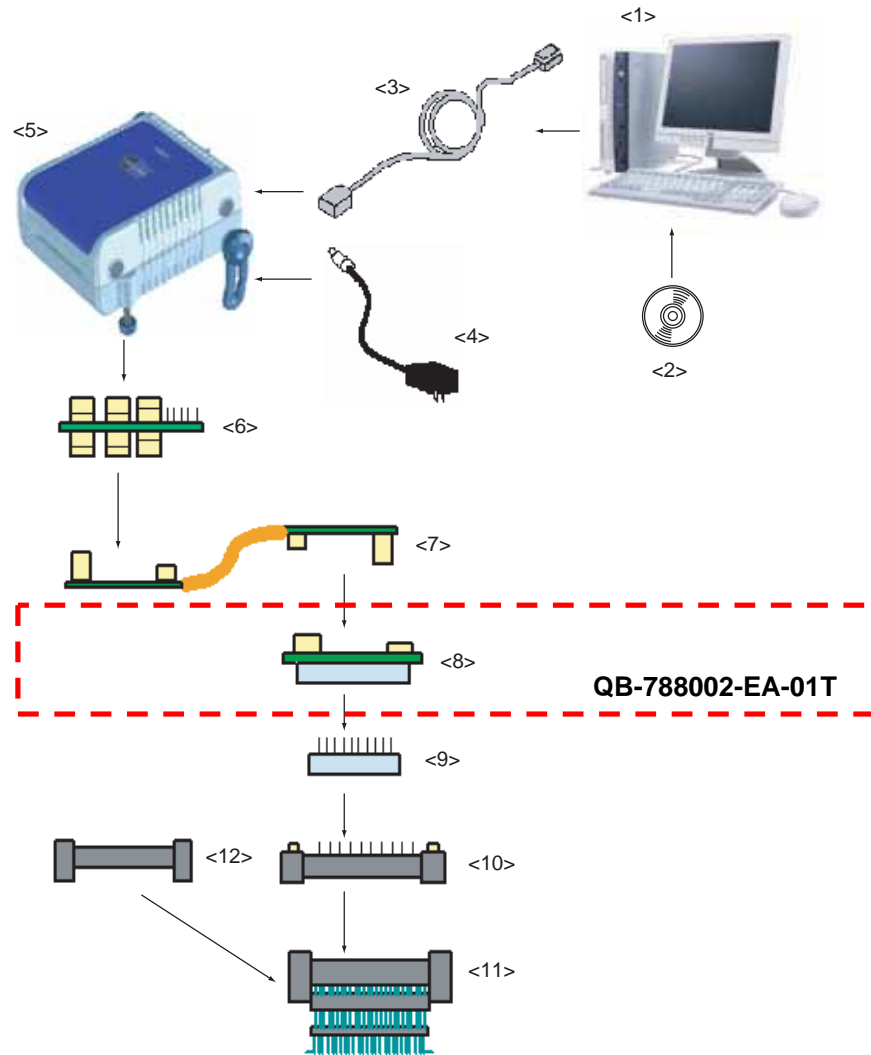
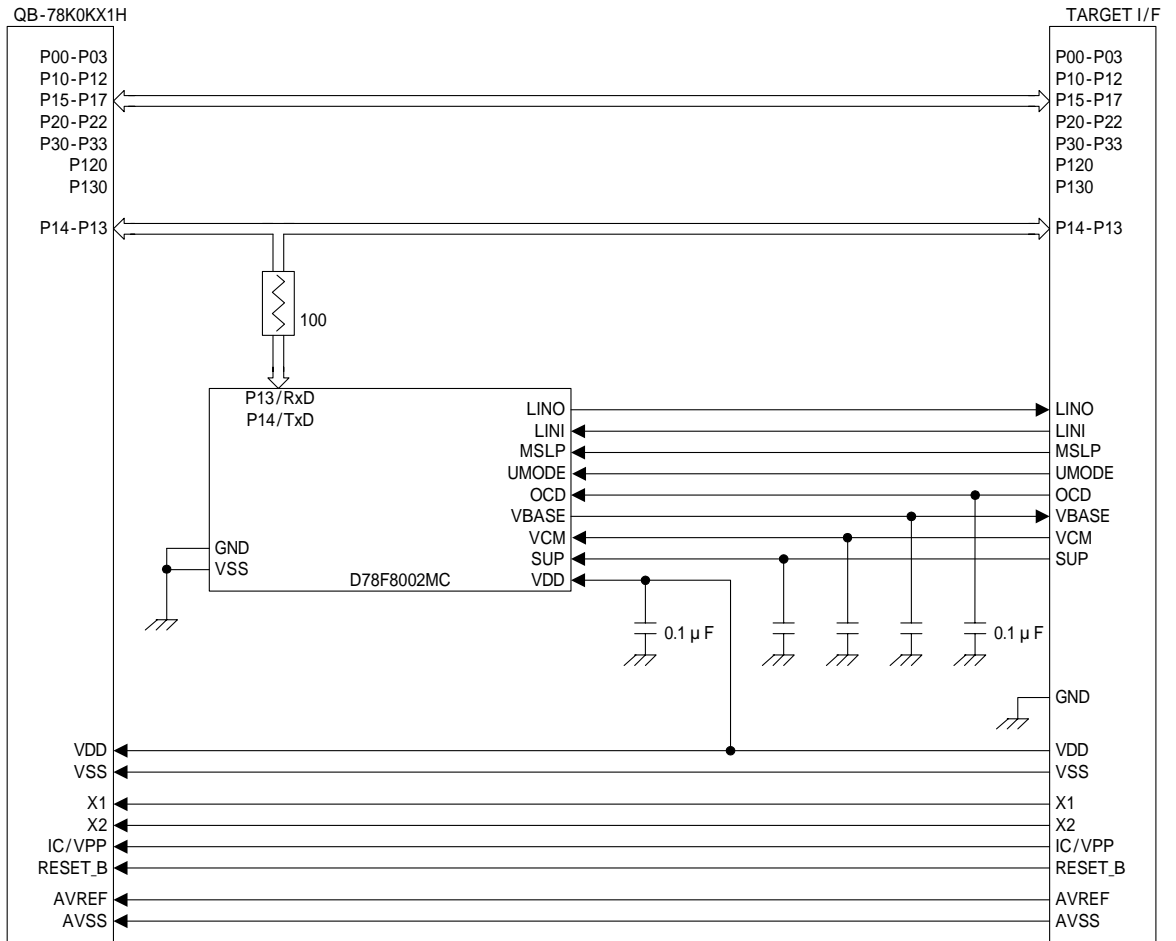


Figure 1-1. Emulation System Configuration for μ PD788001A/788002A/78F8002A



- | | |
|------------------------------------|--|
| <1> Host machine: | PC-9821 series, PC/AT compatible can be used |
| <2> ID78K0-QB Disk/Accessory Disk: | Debugger, USB drivers, manual, etc. |
| <3> USB interface cable: | Cable connecting QB-78K0KX1H to host machine |
| <4> AC adapter: | Can support 100 to 240 V by replacing AC plug |
| <5> QB-78K0KX1: | This product |
| <6> Check pin adapter: | Adapter used when observing waveforms on oscilloscope |
| <7> Emulation probe: | Flexible type of emulation probe |
| <8> Exchange adapter: | On board LIN transceiver and Voltage Regulator adapter that performs pin conversion |
| | QB-788002-EA-01T |
| <9> Spacer adapter: | Adapter for height regulation |
| <10> YQ connector: | Connector that connects exchange adapter to target connector |
| | QB-52GB-YQ-01T |
| <11> Target connector: | Connector soldered to target system |
| | QB-52GB-NQ-01T |
| <12> Mount adapter: | Adapter for socket mounting target device |

QB-788002-EA-01T Block Diagram



第2章 注意事項

- 1 . QB-788002-EA-01T は LIN トランシーバの過熱保護機能を保証していません。
QB-788002-EA-01T を過熱状態および過電流状態で使用しないでください。
- 2 . ターゲット・ボードから電源が SUP と VCM,VDD 端子に必ず供給された状態でデバッグしてください。
- 3 . QB-788002-EA-01T の電源出力電圧精度は、 $V_{ccout} = 5V \pm 5\%$ です。

CHAPTER 2 CAUTIONS

1. The over temperature protect function of LIN transceiver is not guarantee on QB-788002-EA-01T. To operate with overheat or over current on QB-788002-EA-01T is not allowed.
2. In the debug, SUP and VCM,VDD terminal have to be supplied power by target board.
3. QB-788002-EA-01T voltage regulator output voltage accuracy is $V_{ccout} = 5V \pm 5\%$.