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April 1st, 2010
Renesas Electronics Corporation

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Users Manual

QB-788016-EA-01T

Exchange adapter
(On board LIN Transceiver & Voltage Regulator)

Target Devices

μ PD78F8014A

μ PD78F8015A

μ PD78F8016A

Document No. U17692XJ2V0UM00 (2nd Edition)
Date Published December 2007 NS

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Printed in Japan

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第1章 概 説

QB-788016-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。

μ PD78F8014A/78F8015A/78F8016Aを用いたシステム開発において、本製品とQB-78K0KX2を組み合わせ、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-788016-EA-01T is an exchange adapter on board voltage regulator and LIN transceiver function.

<R> Hardware and software can be debugged efficiently in the development of systems in which the μ PD78F8014A/78F8015A/78F8016A are used by combining with this product and QB-78K0KX2.

図1 - 1 外観図

Figure 1-1. Appearance Diagram

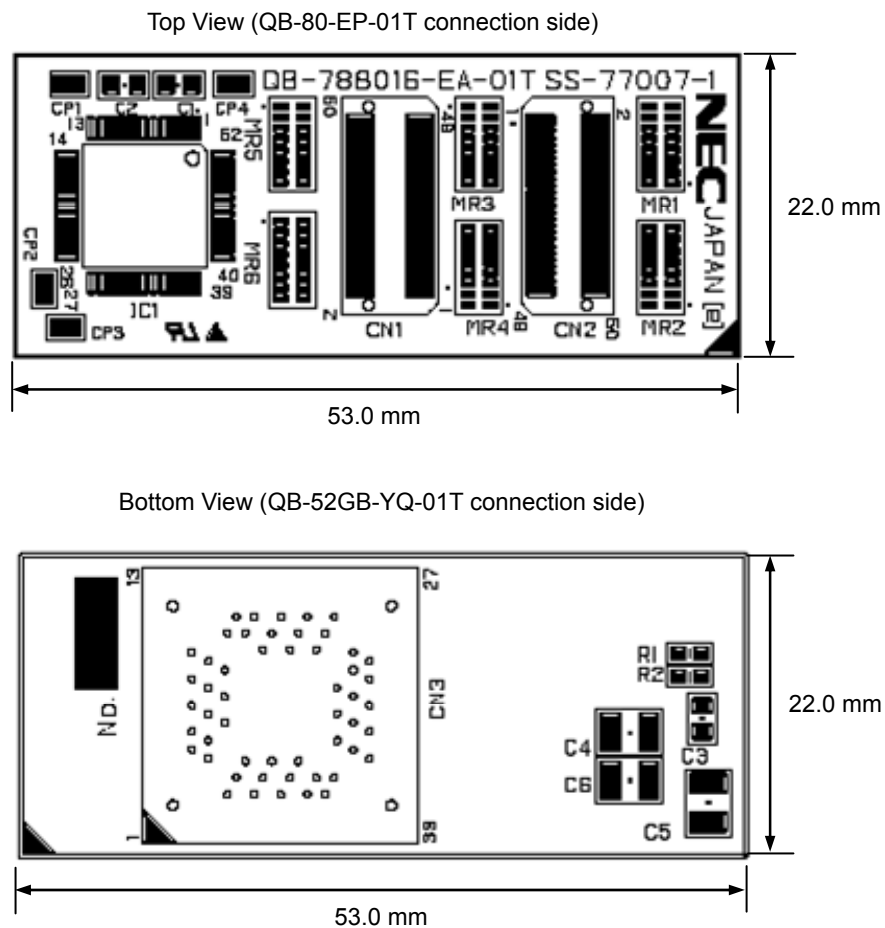
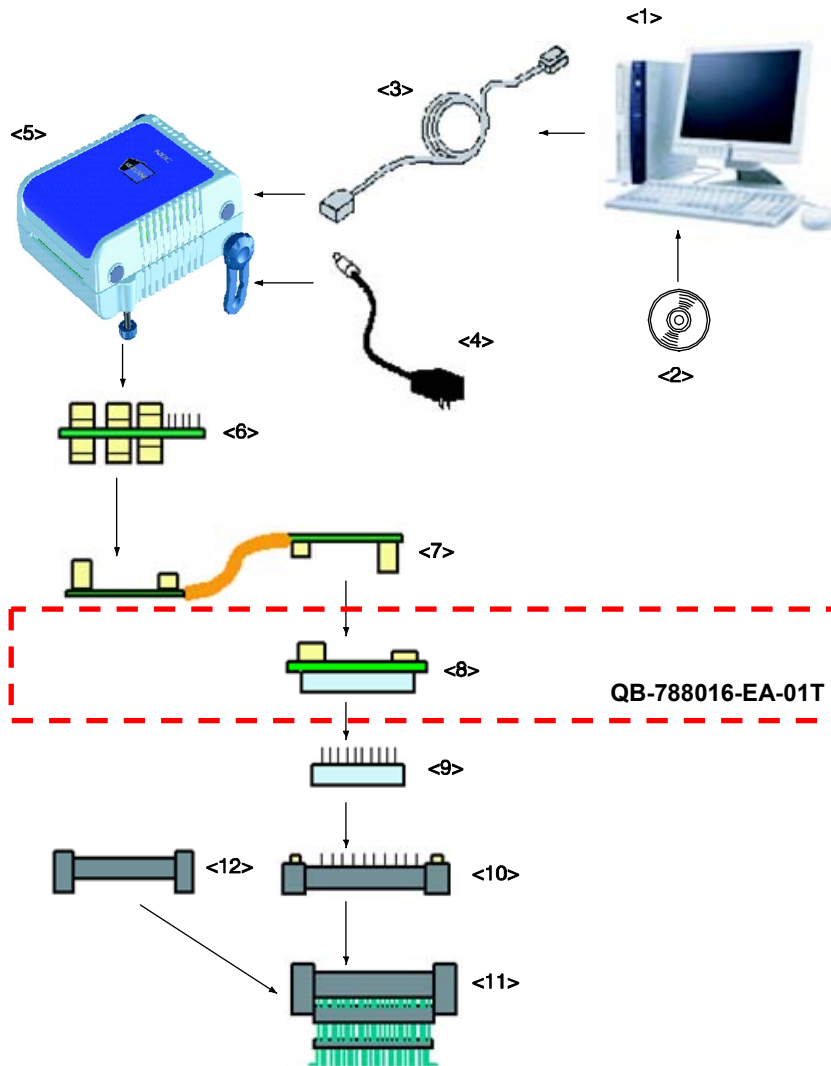


図1 - 2 μ PD78F8014A/78F8015A/78F8016Aシステム構成

<R>

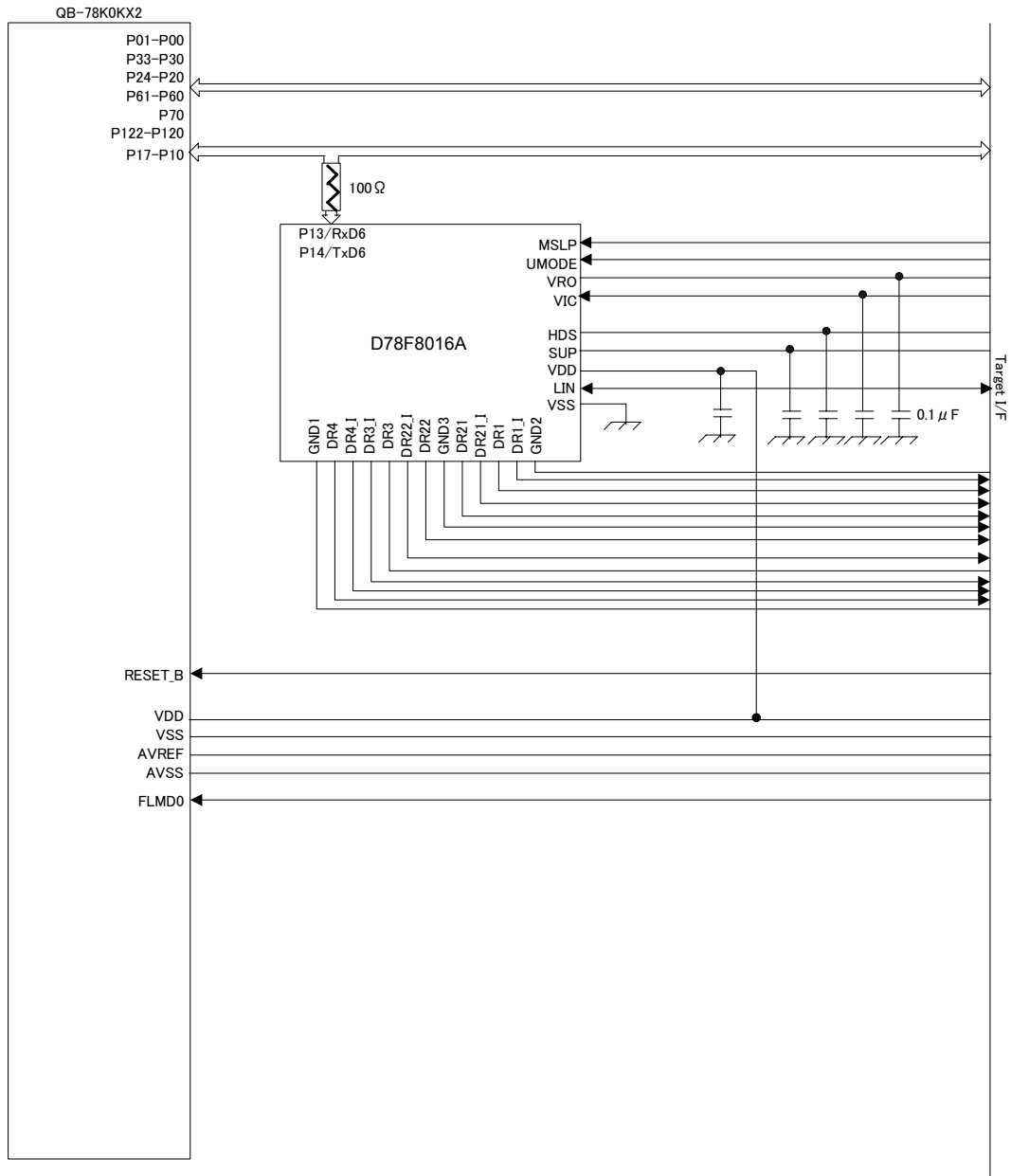
Figure 1-2. Emulation System Configuration for μ PD78F8014A/78F8015A/78F8016A

- | | |
|--|--|
| <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-78K0KX2 to host machine |
| <4> AC adapter: | Can support 100 to 240 V by replacing AC plug |
| <5> QB-78K0KX2: | This product |
| <6> Check pin adapter: | Adapter used when observing waveforms on oscilloscope |
| <7> Emulation probe: | Flexible type of emulation probe |
| <8> Exchange adapter:
QB-788016-EA-01T | On board LIN transceiver and Voltage Regulator adapter that performs pin conversion |
| <9> Spacer adapter: | Adapter for height regulation |
| <10> YQ connector:
QB-52GB-YQ-01T | Connector that connects exchange adapter to target connector |
| <11> Target connector:
QB-52GB-NQ-01T | Connector soldered to target system |
| <12> Mount adapter: | Adapter for socket mounting target device |

図1 - 3 QB-788016-EA-01Tブロック構成

Figure 1-3. QB-788016-EA-01T Block Diagram

<R>



D78F8016A

第2章 注意事項

QB-788016-EA-01Tは、電源回路、LINトランシーバ回路およびDr4回路の過熱保護機能を保証していません。

QB-788016-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。

デバッグするときは、必ずターゲット・ボードからSUP、VRO、VDD端子に電源が供給された状態で行ってください。

SUP、HDS、LIN端子には、20 V以上印加しないでください。

CHAPTER 2 CAUTIONS

- The over temperature protect function of Voltage regulator circuit, LIN transceiver circuit and Dr4 circuit is not guarantee on QB-788016-EA-01T. To operate with overheat or over current on QB-788016-EA-01T is not allowed.
- In the debug, SUP and VRO, VDD terminal have to be supplied power by target board.
- To supply the SUP, HDS and LIN terminal more than 20V is not allowed.

付録A 改版履歴

これまでの改版履歴を次に示します。なお、適用箇所は各版での章を示します。

版数	前版からの主な改版内容	適用箇所
第2版	<ul style="list-style-type: none">製品名を変更。 μPD78F8014 μPD78F8014A μPD78F8015 μPD78F8015A μPD78F8016 μPD78F8016A	全般

本文欄外の 印は、本版で改訂された主な箇所を示しています。

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Revisions up to the previous edition are shown below. The “Applied to” column indicates the chapter in each edition to which the revision was applied.

Edition	Description	Applied to
2nd edition	<ul style="list-style-type: none">Change of package names. μPD78F8014 \rightarrow μPD78F8014A μPD78F8015 \rightarrow μPD78F8015A μPD78F8016 \rightarrow μPD78F8016A	throughout

The mark <R> shows major revised points.

The revised points can be easily searched by copying an “<R>” in the PDF file and specifying it in the “Find what:” field.

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