

To our customers,

Old Company Name in Catalogs and Other Documents

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

Renesas Electronics website: <http://www.renesas.com>

April 1st, 2010
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (<http://www.renesas.com>)

Send any inquiries to <http://www.renesas.com/inquiry>.

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(Note 2) “Renesas Electronics product(s)” means any product developed or manufactured by or for Renesas Electronics.

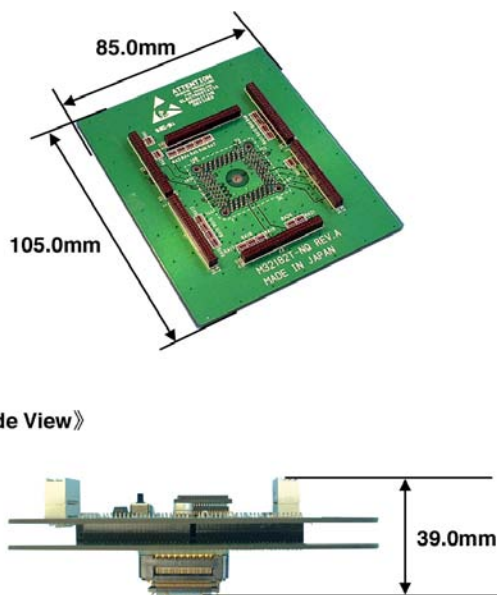
M32182T2-PTC

Converter for In-circuit Connection (for M32182 Group)

Function

The M32182T2-PTC is a converter for featuring the debugging function such as real-time tracing when using emulators M32100T5-SDI-E, M32100T3-SDI-E, M32100T2-SDI-E or M32170T-SDI(Discontinued product) or M32100T-SDI-E (Discontinued product) with the M32182FxxFP.

External and dimension



Package Components

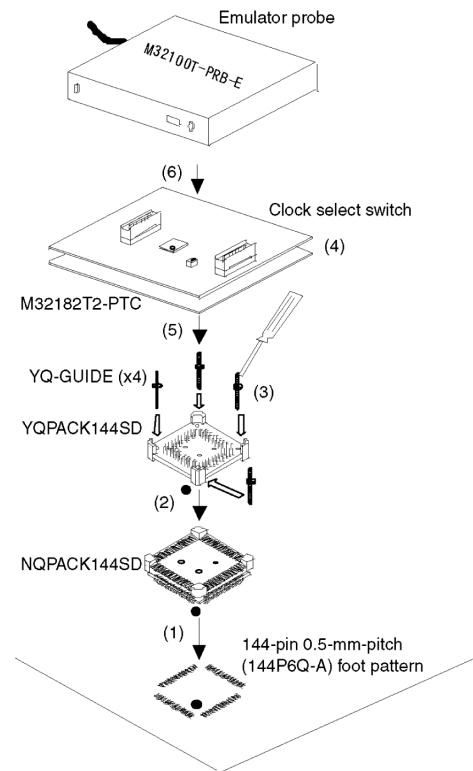
- M32182T2-PTC converter
- YQPACK144SD (made by Tokyo Eletech Co., Ltd.)
- NQPACK144SD (made by Tokyo Eletech Co., Ltd.)
- YQ-GUIDE (× 4)
- Phillips screw driver (made by Tokyo Eletech Co., Ltd.)
- User's manual

*Required components to connect to the target system are included with this product package. Each component made by Tokyo Eletech Co., Ltd. is optionally available alone from Tokyo Eletech Co., Ltd. See Appendix G "Contact Addresses for Partner Products".

Attaching Procedure

For the M32100T2-SDI-E and M32100T3-SDI-E (When debugging)

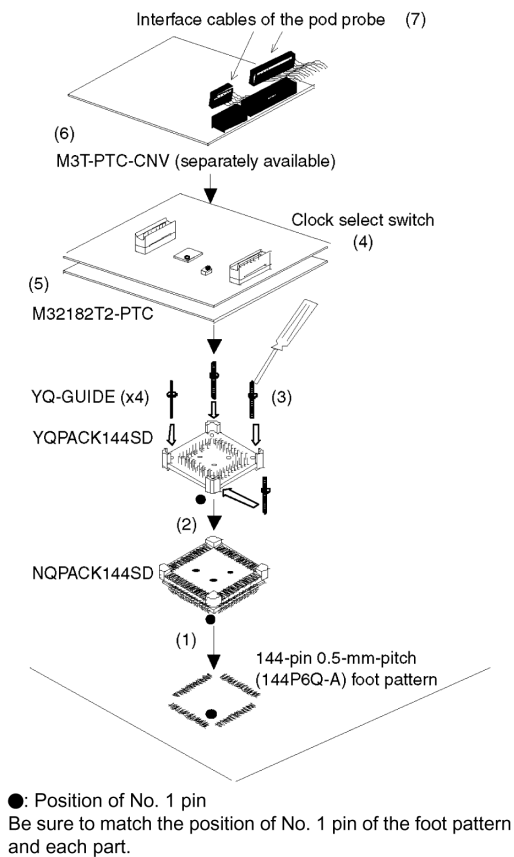
- (1) Mount NQPACK144SD on the foot pattern on the target system.
- (2) On top of (1), mount YQPACK144SD.
- (3) Screw down the YQPACK144SD with YQ-GUIDE's.
- (4) Set the clock select switch.
- (5) Mount the M32182T2-PTC on the YQPACK144SD.
- (6) Connect the emulator probe to the M32182T2-PTC.



●: Position of No. 1 pin
Be sure to match the position of No. 1 pin of the foot pattern and each part.

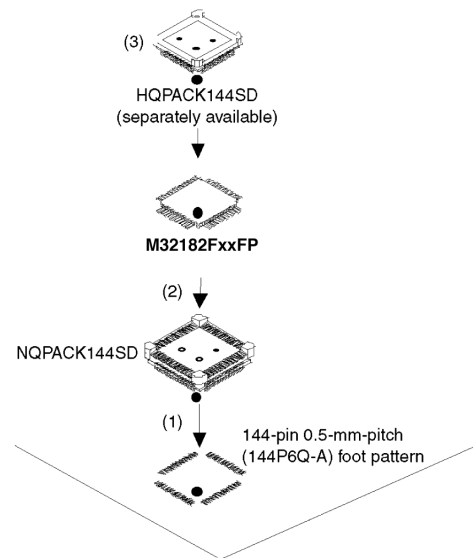
For the M32100T-SDI-E and M32170T-SDI (When debugging)

- (1) Mount NQPACK144SD on the foot pattern on the target system.
- (2) On top of (1), mount YQPACK144SD.
- (3) Screw down the YQPACK144SD with YQ-GUIDE's.
- (4) Set the clock select switch.
- (5) Mount the M32182T2-PTC on the YQPACK144SD.
- (6) Mount the M3T-PTC-CNV on the M32182T2-PTC.
- (7) Connect the probe of the emulation pod and the M32182T2-PTC via the SDI MCU control interface cable and the SDI trace interface cable.



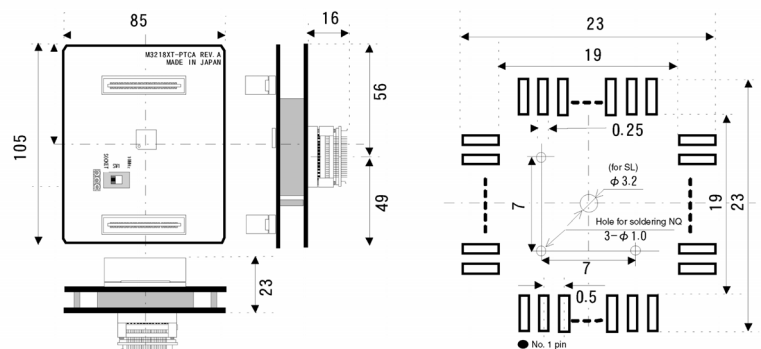
During board-mounted evaluation

- (1) Mount the NQPACK144SD.
- (2) Mount the M32182FxxFP on the NQPACK144SD.
- (3) Mount the HQPACK144SD (option) on the NQPACK144SD.



●: Position of No. 1 pin
Be sure to match the position of No. 1 pin of the foot pattern and each part.

Recommended Foot Pattern (Unit: mm)



[Ordering Information] See Appendix H "Ordering Information".