M32170T-PTC

Converter for In-circuit Connection (for 32170, 32174 Group)

Function

This converter is used exclusively for debugging with the emulator M32100T5-SDI-E, M32100T3-SDI-E, M32100T2-SDI-E or M32100T-SDI-E (Discontinued product) when the target is an M3217xFxxFP of M32R Family 32170 and 32174 Group MCUs and is connected in-circuit with the emulator. It allows debugging such as real-time tracing. It is not only for debugging but also for evaluation by mounting on the target system.
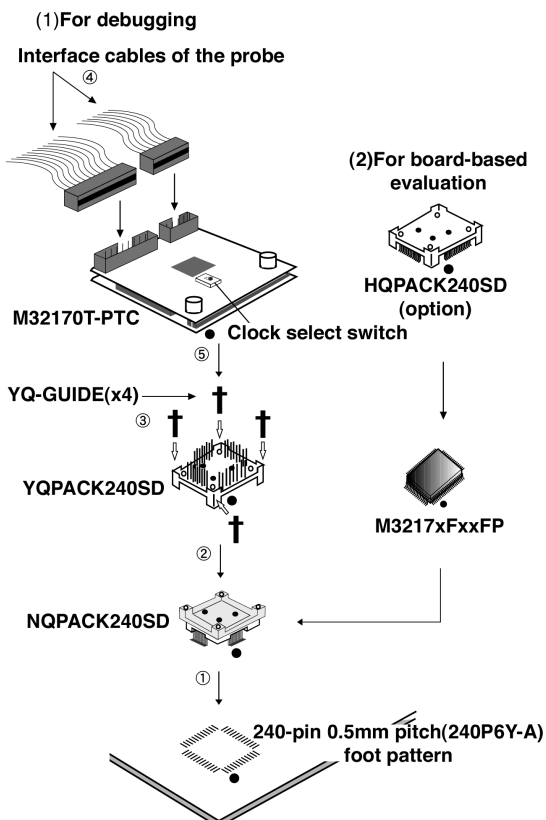
Attaching Procedure

When debugging

(1) Mount NQPACK240SD on the foot pattern on the target system.

(2) On top of (1), mount YQPACK240SD.

(3) Screw down the YQPACK240SD with YQ-GUIDE's.

(4) Connect the JTAG cable mounted on the probe of the emulator to the M32170T-PTC.
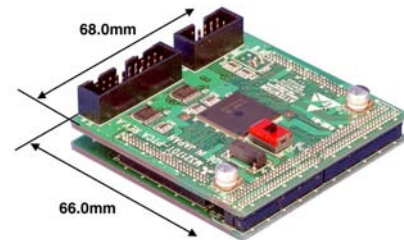
(5) Connect the M32170T-PTC and YQPACK240SD.

During board-mounted evaluation

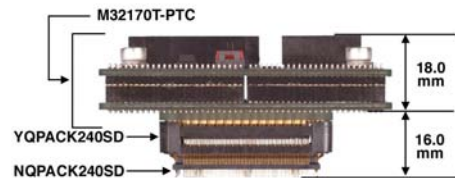On NQPACK240SD mounted on the target system, first put an MCU (M3217xFxxFP), and then the HQPACK240SD (option).

(1)For debugging

Interface cables of the probe ④

(2)For board-based evaluation

HQPACK240SD (option)

M32170T-PTC ● **Clock select switch** ⑤

YQ-GUIDE(x4) ③

YQPACK240SD ②

M3217xFxxFP

NQPACK240SD ①

240-pin 0.5mm pitch(240P6Y-A) foot pattern

*. ①~⑤ show the connecting procedure.
*. ● No. 1 pin

External View and Dimensions

68.0mm

66.0mm

《 Side view 》

M32170T-PTC

18.0 mm

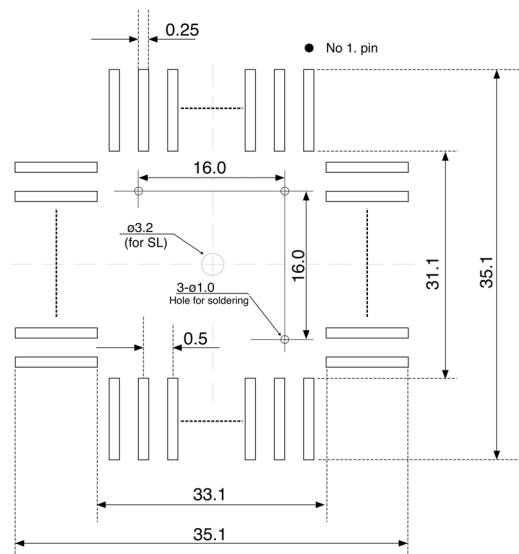YQPACK240SD

NQPACK240SD

16.0 mm

Package Components

• M32170T-PTC converter

• YQPACK240SD (made by Tokyo Eletech Co., Ltd.)

• NQPACK240SD (made by Tokyo Eletech Co., Ltd.)

• YQ-GUIDE ($\times$ 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".

Recommended Foot Pattern (Unit: mm)

0.25

● No 1. pin

16.0

ø3.2 (for SL)

3-ø1.0 Hole for soldering

16.0

0.5

31.1

35.1

33.1

35.1

*All brand names and product names are trademarks or registered trademarks of their respective companies.