EXA-standard Conversion Adapter Technical Data (Rev. 2)

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Tokyo Eletech Corporation

1. Overview

The EXA-standard conversion adapter retrieves a signal from a target connector and verifies the signal using a check pin connecter. This adapter has the following features:

Newly standardized adapter replacing the conventional EXB- and SEXB-standard conversion adapters

Reduced number of components compared with the conventional models

Check pin adapter supplied as standard equipment to allow a signal to be verified at the target side

Foot pattern available on the board to mount an IC

Any adapter with up to 100 pins can be connected to the existing cable (HS cable).

RoHS directive supported

2. Specifications

2.1 Use environment

Table 2-1 Use Environment for EXA Adapter Series

No.	Item	When in operation	When not in operation
1	Temperature	10 to 35	-10 to 50
2	Humidity	35 to 80% RH (no condensation)	35 to 80% RH (no condensation)
3	Surrounding gas	No corrosive gas	No corrosive gas

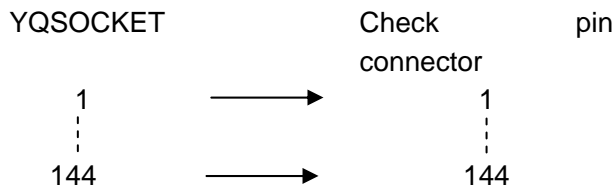2.2 Configuration

Table 2-2 Sockets and Check Pin Connectors Used

Model name	Mounted socket	Check pin	Quantity
EXA-044SZ-S	TQSOCKET004SZF	ISS-D36-G081KO-T018 ISS-D08-G081KO-T018	2 4
EXA-048SD-S	YQSOCKET048SDF	ISS-D36-G081KO-T018 ISS-D08-G081KO-T018	2 4
EXA-064SA-S	YQSOCKET064SAF	ISS-D36-G081KO-T018 ISS-D08-G081KO-T018	2 4
EXA-080RA-S	YQSOCKET080RAF	ISS-D36-G081KO-T018 ISS-D08-G081KO-T018	2 4
EXA-080SB-S	YQSOCKET080SBF	ISS-D36-G081KO-T018 ISS-D08-G081KO-T018	2 4
EXA-080SD-S	TQSOCKET080SDF	ISS-D36-G081KO-T018 ISS-D08-G081KO-T018	2 4
EXA-100RB-S	YQSOCKET100RBF	ISS-D36-G081KO-T018 ISS-D08-G081KO-T018	2 4
EXA-100SD-S	YQSOCKET100SDF	ISS-D36-G081KO-T018 ISS-D08-G081KO-T018	2 4
EXA-112SB-S	TQSOCKET112SBF	ISS-D28-G081KO-T018	4
EXA-120SD-S	YQSOCKET120SDF	ISS-D30-G081KO-T018	4
EXA-132SC-S	TQSOCKET132SCF	ISS-D34-G081KO-T018	4
EXA-144SD-S	YQSOCKET144SDF	ISS-D36-G081KO-T018	4
EXA-160SB-S	YQSOCKET160SBF	ISS-D40-G081KO-T018	4
EXA-176SD-S	YQSOCKET176SDF	ISS-D44-G081KO-T018	4
EXA-208SD-S	YQSOCKET208SDF	ISS-D26-G081KO-T018	8
EXA-256RD-S	TQSOCKET256RDF	ISSS-S38-G081KO-T018 ISSS-S26-G081KO-T018	4 4

The check pin connecters used are male connectors manufactured by JC Electronics Corporation.

The pin connector used for EXA-044SZ-S to EXA-208SD-S has a pitch of 1.78mm.

Only EXA-256RD-S uses a check pin connector with a pitch of 1.27mm.

2.3 Connection information

Between YQSOCKET or TQSOCKET and the check pin connector

(Adapter with more than 100 pins)

Pin-to-pin connection is used for EXA-112SB-S to EXA-256RD-S.

Example: EXA-144SD-S

YQSOCKET		Check pin connector
1	$\longrightarrow$	1
┊		┊
144	$\longrightarrow$	144

(Adapter with up to 100 pins)

An EXA adapter with up to 100 pins can be connected to the existing cable (HS cable).

For information about the connection between YQSOCKET or TQSOCKET and the check pin connecter and also connection to the HS cable, see the relevant separate drawing.

2.4 Adaptor dimensions

Unit: mm

Model name	Dimensions
EXA-044SZ-S	42.5× 45
EXA-048SD-S	42.5× 45
EXA-064SA-S	42.5× 45
EXA-080RA-S	42.5× 45
EXA-080SB-S	42.5× 45
EXA-080SD-S	42.5× 45
EXA-100RB-S	42.5× 45
EXA-100SD-S	42.5× 45
EXA-112SB-S	40
EXA-120SD-S	36
EXA-132SC-S	47.8
EXA-144SD-S	40
EXA-160SB-S	46
EXA-176SD-S	52.6
EXA-208SD-S	55
EXA-256R-D-S	52.1× 64.2

3.   Usage
3.1 When using TQPACK as the target connector
     TQPACK is used in combination with TQSOCKET...P   W   or G.
     * TQPACK, and TQSOCKET...   and   are optional products.

3.2 When using NQPACK as the target connector
     NQPACK is used in combination with YQPACK and YQGUIDE-S3.
     * EXA-044SZ-S   EXA-080SD-S   EXA-112SB-S   EXA-132SC-S   EXA-160SB-S
        and EXA-256RD-S are only connected to TQPACK; they cannot be connected to
        NQPACK.
     * NQPACK and YQPACK are optional products.

3.3 Supplied item
     Adapter unit x 1

4.   Notes
4.1 When directly connecting to a connector unit, make sure that none of the contact pins
are bent.

4.2 When connecting or disconnecting the EXA-standard conversion adapter from the
     connector unit mounted on the target board, hold the connector unit down with your
     fingers so that the adapter can be connected or disconnected vertically. Combined use of
     a product with a guide will prevent pins from being bent.

          YQSOCKET is mounted on the conversion board as part of the basic configuration.
          On the following products, however, TQSOCKET is mounted instead:
             EXA-044SZ-S,   EXA-080SD-S,   EXA-132SC-S   ,EXA-160SB-S,   and
          EXA-256RD-S

4.3 The EXA-standard conversion adapter supports RoHS.

4.4 Do not use the EXA-standard conversion adapter system under environmental
     conditions such as vibration and shock, as the product is not intended for use in such
     special conditions.

4.5 This product is intended for use in system development and evaluation. In addition, it is
     not subject to the provisions of the Electrical Appliance and Material Safety Law or the
     Electromagnetic Interference Measures.

          * Care must be taken not to use the product with unnecessary pressure on any
          soldered part of the adapter connector, as this may cause a crack in the solder.

     **The specifications, design, catalog and instruction manual of this product are
subject to change without notice.**

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