

MOST

Media Oriented Systems Transport

Multimedia and Control
Networking Technology

MOST150 oPhy Sub-Spec Rev. 1.1

Addendum D150

04/2013

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See page 3 for the terms of disclosure



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SUPPORT AND FURTHER INFORMATION

For more information on the MOST technology, please contact:

MOST Cooperation

Administration
Bannwaldallee 48
D-76185 Karlsruhe
Germany

Tel: (+49) (0) 721 966 50 00

E-mail: contact@mostcooperation.com

Web: www.mostcooperation.com



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Document References

All documents which this MOST document has references to are listed here with the actual revision this document is referring to.

Number	Document	Revision
[1]	MOST150 oPhy Automotive Sub-Specification [MOST150]	Rev. 1.1

Document History

First version 1.0-00

Change Ref.	Section	Changes
-	-	- First version, no changes

1 Introduction

This document is a supplement to the **MOST150 oPhy Automotive Sub-Specification** [1]. It specifies the usage of the MOST150 90° FO-Transceiver SMD package and connector interface as an option for MOST150.

2 Content of Addendum

3 MOST150 FO-Transceiver SMD 90°

References for drawings related to the MOST150 FO-Transceiver SMD 90° are listed in Table 3-1.

Drawing Code	File Name
MOST150 FO-Transceiver SMD 90deg	MOST150_FO-Transceiver_SMD_90deg_AVx.TIF
	PDF Files are available on www.mostcooperation.com x indicates version number of drawing file

Table 3-1: Drawing Codes and File Names for the MOST150 FO-Transceiver SMD 90° package

The corresponding up-to-date drawings have to be applied.

3.1.1 FOT Pin-out

An EOC (Tx) and OEC (Rx) shall be combined into 2 x 7-pin package being available as surface mount (SMD) package, see *Figure 3-1*. The pin-out is shown below. The printed circuit board footprint is shown in above mentioned drawings.

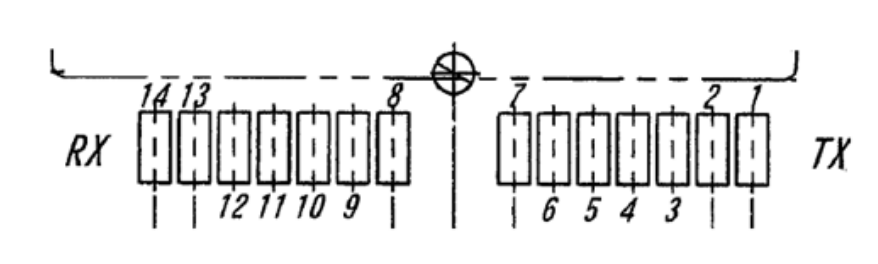


Figure 3-1: MOST150 FO-Transceiver SMD 90° Pin-out

3.1.2 OEC Signal Descriptions

The OEC illustrated in *Figure 3-1* must conform to the pin-out and signal functionality as described in Table 3-2.

Pin Name	Pin No.	Functional Description
STATUS	8	STATUS output. Logic Low when the OEC is in the On-State, Logic High when the OEC is in the Off-State
VCC_RX 1	9	Power supply for the OEC.
GND_RX	10	Ground return for the OEC power supply.
RXN	11	OEC data output -. N terminal of the differential signal.
RXP	12	OEC data output +. P terminal of the differential signal.
RESERVED4	13	Connected according OEC datasheet.
VCC_RX2	14	Power supply for the OEC.

Table 3-2: Signal Description for the OEC

3.1.3 EOC Signal Descriptions

The EOC illustrated in *Figure 3-1* must conform to the pin-out and signal functionality as described in Table 3-3.

Pin Name	Pin No.	Functional Description
/RST	1	Active-low logic input signal that disables optical output.
RESERVED3	2	Connected according OEC datasheet.
TXN	3	EOC data input -. N terminal of the differential signal.
TXP	4	EOC data input +. P terminal of the differential signal.
GND_TX	5	Ground return for the EOC power supply.
VCC_TX	6	Power supply for the EOC.
RESERVED1	7	Reserved for future use in MOST. On the PCB, connect to ground through 0-Ohm resistor.

Table 3-3: Signal Description for the EOC

3.2 Connector Interface

Table 3-4 lists the connector interface of the Small Form Connector 2+0 SMALL.

"Nick Name"	Number of Optical Contacts	Number of Electrical Contacts		
		PIN = 0.63 mm	PIN = 1.5 mm	PIN = 2.8 mm
2+0	2	-	-	-

Table 3-4: Drawing Codes and File Names for the MOST150 FO-Transceiver SMD 90° package

Table 3-5 is a listing of all standardized connectors and indicates the drawing codes, the file names of all specified connector interfaces and the drawing date.

"Nick Name"	Drawing Code	TIFF File
2+0	MOST-CON-2-0	MOST-CON-2-0.tif
		TIFF Files available on www.mostcooperation.com

Table 3-5: Drawing Codes and File Names of Connector Interfaces

The corresponding up-to-date drawings have to be applied.

4 Comment

4.1 Reason for Addendum

MOST150 SMD 90° package supporting reflow soldering.

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