

# Transceiver Test Report

PN: SFPP-T-TCA5 (SFP-10G-T)

**I. Test Purpose**

By building realistic switch use cases, we test whether the SFPP-T-TCA5 (SFP-10G-T) transceiver meets industry standards, performs at a high level, and is compatible with the target switch platform.

**II. Test Results Summary**

| Test items                 | Test Result | Note   |
|----------------------------|-------------|--|
| Compatibility Test         | Pass        | Check whether the transceiver is compatible with the target switch |
| Transmission Distance Test | Pass        | Check whether the transceiver meets the distance specification     |

**III. Test Environment**

**3.1 Test Sample**


| Vendor Name | Part Number | Serial Number | Description                                |
|-------------|-------------|---------------|--|
| OPTCORE     | SFPP-T-TCA5 | 1814230006    | 10GBASE-T SFP+ RJ45 Copper 30m Transceiver |
| OPTCORE     | SFPP-T-TCA5 | 1814230006    | 10GBASE-T SFP+ RJ45 Copper 30m Transceiver |

**3.2 Test Equipment Used**

| Equipment Brand | Equipment Model        | Software Version/Note   |
|-----------------|------------------------|---|
| Dell            | EMC S4148F-ON          | 10.5.5.6  |
| OPTCORE         | CAB-C6A-SFTP-PVCBL-30m | 30m Cat6A Snagless Shielded (SFTP) PVC Ethernet Network Cable |


IV. Test Data

4.1 Compatibility Test

|           |  |                |             |                      |               |           |
|-----------|--|----------------|-------------|----------------------|---------------|-----------|
| Test Data |  |                |             |                      |               |           |
|           | OS10# show inventory media   |                |             |                      |               |           |
|           | -----  |                |             |                      |               |           |
|           | System Inventory Media   |                |             |                      |               |           |
|           | -----  |                |             |                      |               |           |
|           |  | Node/Slot/Port | Form-Factor | Media                | Serial-Number | Qualified |
|           |  | -----          |             |                      |               |           |
|           |  | 1/1/1          | Not Present |                      |               |           |
|           |  | 1/1/2          | Not Present |                      |               |           |
|           |  | 1/1/3          | Not Present |                      |               |           |
|           |  | 1/1/4          | Not Present |                      |               |           |
|           |  | 1/1/5          | Not Present |                      |               |           |
|           |  | 1/1/6          | Not Present |                      |               |           |
|           |  | 1/1/7          | Not Present |                      |               |           |
|           |  | 1/1/8          | Not Present |                      |               |           |
|           |  | 1/1/9          | Not Present |                      |               |           |
|           |  | 1/1/10         | Not Present |                      |               |           |
|           |  | 1/1/11         | Not Present |                      |               |           |
|           |  | 1/1/12         | Not Present |                      |               |           |
|           |  | 1/1/13         | SFP+        | SFP+ 10GBASE-CR-1.0M | 1814230006    | true      |
|           |  | 1/1/14         | Not Present |                      |               |           |
|           |  | 1/1/15         | SFP+        | SFP+ 10GBASE-CR-1.0M | 1814230006    | true      |
|           |  | 1/1/16         | Not Present |                      |               |           |
|           |  | 1/1/17         | Not Present |                      |               |           |
|           |  | 1/1/18         | Not Present |                      |               |           |
|           |  | 1/1/19         | Not Present |                      |               |           |
|           |  | 1/1/20         | Not Present |                      |               |           |
|           |  | 1/1/21         | Not Present |                      |               |           |
|           |  | 1/1/22         | Not Present |                      |               |           |
|           |  | 1/1/23         | Not Present |                      |               |           |
|           | 1/1/24   | Not Present    |             |                      |               |           |
|           | 1/1/25   | Not Present    |             |                      |               |           |
|           | 1/1/26   | Not Present    |             |                      |               |           |
|           | 1/1/29   | Not Present    |             |                      |               |           |
|           | 1/1/30   | Not Present    |             |                      |               |           |
|           | 1/1/31   | Not Present    |             |                      |               |           |
|           | 1/1/32   | Not Present    |             |                      |               |           |
|           | 1/1/33   | Not Present    |             |                      |               |           |
|           | 1/1/34   | Not Present    |             |                      |               |           |
|           | 1/1/35   | Not Present    |             |                      |               |           |

|                 |   |             |
|-----------------|---|-------------|
|                 | 1/1/36  | Not Present |
|                 | 1/1/37  | Not Present |
|                 | 1/1/38  | Not Present |
|                 | 1/1/39  | Not Present |
|                 | 1/1/40  | Not Present |
|                 | 1/1/41  | Not Present |
|                 | 1/1/42  | Not Present |
|                 | 1/1/43  | Not Present |
| Test Conclusion | The optical transceiver was successfully recognized by the Dell EMC S4148F-ON, with all identification information accurately displayed in the outputs. |             |

**4.2 Transmission Distance Test**

|                 |  |
|-----------------|--|
| Test Conclusion |  <p>In this test, SFPP-T-TCA5 (SFP-10G-T) modules were connected using 30m Cat6A SFTP PVCBL copper Ethernet cables (OPTCORE CAB-C6A-SFTP-PVCBL-30m) to verify link stability. The modules were inserted into the switches and established a point-to-point connection. The link was monitored for one hour to check for any bit errors, packet loss, link drops, or interruptions. All connections remained stable and error-free, indicating that the modules perform reliably over a 30m Cat6A copper Ethernet link.</p> |
|-----------------|--|

**Appendix A. Document Revision**

| Version No | Date       | Description             |
|------------|------------|-------------------------|
| V1.0/EN    | 2025-12-29 | Preliminary test report |

For more information, visit us on the web at [www.optcore.net](http://www.optcore.net)



V1.0/EN Copyright © 2025 Optcore Technology Co., Ltd. All rights reserved. Optcore, Optcore logo are registered trademarks of Optcore Technology Co., Ltd. All other brands, product names, or trademarks mentioned are the property of their respective owners. Specifications and product availability are subject to change without notice. Optcore assumes no responsibility for inaccuracies contained herein.

