

## **AA1403043-E6-OPC**

Avaya/Nortel® AA1403043-E6 Compatible TAA 100/1000/10000Base-TX SFP+ Transceiver (Copper, 30m, RJ-45)

### **Features**

- SFF-8432 Compliance
- RJ-45 Connector
- Copper Media Type
- Commercial Temperature 0 to 70 Celsius
- Hot Pluggable
- Metal with Lower EMI
- Excellent ESD Protection
- RoHS Compliant and Lead Free



### **Applications:**

- 10GBase Ethernet
- Access and Enterprise

### **Product Description**

This Avaya/Nortel® AA1403043-E6 compatible SFP+ transceiver provides 100/1000/10000Base-TX throughput up to 30m over a copper connection via a RJ-45 connector. This TX module supports 100/1000/10000Base auto-negotiation and can be configured to fit your needs. Our transceiver is built to meet or exceed OEM specifications and is guaranteed to be 100% compatible with Avaya/Nortel®. It has been programmed, uniquely serialized, and tested for data-traffic and application to ensure that it will initialize and perform identically. All of our transceivers comply with Multi-Source Agreement (MSA) standards to provide seamless network integration. This transceiver is Trade Agreements Act (TAA) compliant. We stand behind the quality of our products and proudly offer a limited lifetime warranty.

### Absolute Maximum Ratings

| Parameter                  | Symbol           | Min.  | Max. | Unit |
|----------------------------|------------------|-------|------|------|
| Maximum Supply Voltage     | V <sub>CC</sub>  | 3.135 | 3.6  | VDC  |
| Storage Temperature        | T <sub>S</sub>   | -40   | 85   | °C   |
| Operating Case Temperature | T <sub>C</sub>   | 0     | 70   | °C   |
| Operating Humidity         | RH               | 5     | 95   | %    |
| Maximum Bitrate            | B <sub>max</sub> |       | 11.4 | Gbps |

### Electrical Characteristics (TOP=25°C, V<sub>CC</sub>=3.3Volts)

| Parameter                        | Symbol          | Min.  | Typ. | Max.                 | Unit | Notes |
|----------------------------------|-----------------|-------|------|----------------------|------|-------|
| Power Supply Voltage             | V <sub>CC</sub> | 3.135 | 3.30 | 3.465                | V    |       |
| Low Speed Input Voltage          |                 | -0.5  |      | V <sub>CC</sub> +0.3 | V    |       |
| Two-Wire Interface Input Voltage |                 | -0.3  |      | V <sub>CC</sub> +0.5 | V    |       |
| Power (30m @ 25C ambient)        |                 |       | 2.3  | 2.5                  | W    |       |

## Pin Descriptions

| Pin | Symbol     | Name/Descriptions                                    | Ref. |
|-----|------------|------------------------------------------------------|------|
| 1   | VeeT       | Transmitter Ground                                   | 1    |
| 2   | Tx_Fault   | Transmitter Fault LVTTTL-O                           |      |
| 3   | Tx_Disable | Transmitter Disable LVTTTL-I                         |      |
| 4   | SDA        | 2-wire Serial Interface Data Line LVTTTL-I/O         |      |
| 5   | SCL        | 2-wire Serial Interface Clock LVTTTL-I/O             |      |
| 6   | Mod_ABS    | Module Absent, connect to VeeT or VeeR in the module |      |
| 7   | RS0        | Rate Select 0 LVTTTL-I                               |      |
| 8   | Rx_LOS     | Receiver Loss of Signal Indication LVTTTL-O          |      |
| 9   | RS1        | Rate Select 1 LVTTTL-I                               |      |
| 10  | VeeR       | Receiver Ground                                      | 1    |
| 11  | VeeR       | Receiver Ground                                      | 1    |
| 12  | RD-        | Receiver Inverted Data Output CML-O                  |      |
| 13  | RD+        | Receiver Non-Inverted Data Output CML-O              |      |
| 14  | VeeR       | Receiver Ground                                      | 1    |
| 15  | VccR       | Receiver 3.3V Supply                                 |      |
| 16  | VccT       | Transmitter 3.3V Supply                              |      |
| 17  | VeeT       | Transmitter Ground                                   | 1    |
| 18  | TD+        | Receiver Inverted Data Output CML-I                  |      |
| 19  | TD-        | Transmitter Inverted Data Input CML-I                |      |
| 20  | VeeT       | Module Transmitter Ground                            | 1    |

### Notes:

1. The module signal grounds should be isolated from the module case.

Mechanical Specifications

