

# 100G QSFP28 to CFP Converter Module

## Features

- Compatible with CFP MSA Specification
- Compatible with QSFP28 MSA SFF 8661 Specification
- Supports 103Gbps and 112Gbps aggregate bit rates\*(Note1)
- Single 3.3V Power Supply and Power Dissipation < 5.5W
- Operating Case Temperature Range:Standard: 0°C~+70°C
- MDIO interface with integrated Digital Diagnostic Monitoring
- Complaint with the EU RoHS 6 Environmental requirements.

## Applications

- Convert QSFP28 port to CFP port

## Ordering Information

| Part No.     | Support CFP QSFP28 PRBS | Form Factor Convert | Temp       |
|--------------|-------------------------|---------------------|------------|
| CVR-CFP-Q100 | YES                     | QSFP28-CFP          | 0°C ~ 70°C |

## Regulatory Compliance

| Product Certificate | Certificate Number | Applicable Standard           |
|---------------------|--------------------|-------------------------------|
| TUV                 | R50135086          | EN 60950-1:2006+A11+A1+A12+A2 |
|                     |                    | EN 60825-1:2014               |
|                     |                    | EN 60825-2:2004+A1+A2         |
| UL                  | E317337            | UL 60950-1                    |
|                     |                    | CSA C22.2 No. 60950-1-07      |
| EMC CE              | AE 50285865 0001   | EN 55022:2010                 |
|                     |                    | EN 55024:2010                 |
| FCC                 | WTF14F0514417E     | 47 CFR PART 15 OCT., 2013     |
| FDA                 | /                  | CDRH 1040.10                  |
| ROHS                | /                  | 2011/65/EU                    |

The above certificate number updated to June 2014, because some certificate will be updated every year, such as FCC, FDA and ROHS.

## Product Description

The CVR-CFP-Q100 converts a 100G QSFP28 port into a 100G CFP port. With the converter module, customers have the flexibility to use the 100G CFP interface port of a switch with CFP modules or QSFP28 modules. This flexibility is critical when the specific type of interface is not available in one or the other form factor or when customers want to use the same form factor for interfaces across multiple platforms deployed in their network.

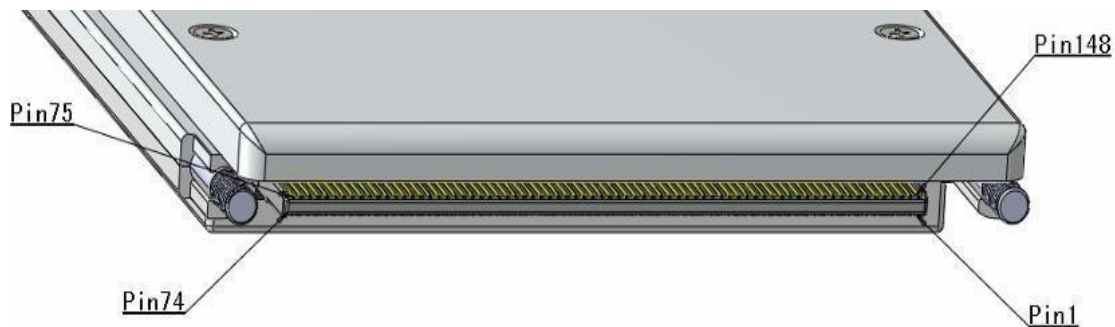
It is a highly integrated, serial optical converter module for high-speed, 100G data transmission applications. The module is fully compliant to IEEE 802.3 standard for Ethernet, making it ideally suited for 100GbE datacom (Rack-to-Rack, Client interconnection) applications. The converter operates within a wide case temperature range of 0 °C to +70°C and offers optimum heat dissipation and excellent electromagnetic shielding which enables high port densities for 100G systems. A 148 pin electrical connector and a QSFP28 interface assure that connectivity is compliant to both CFP MSA and QSFP28 MSA.

## Thermal Management

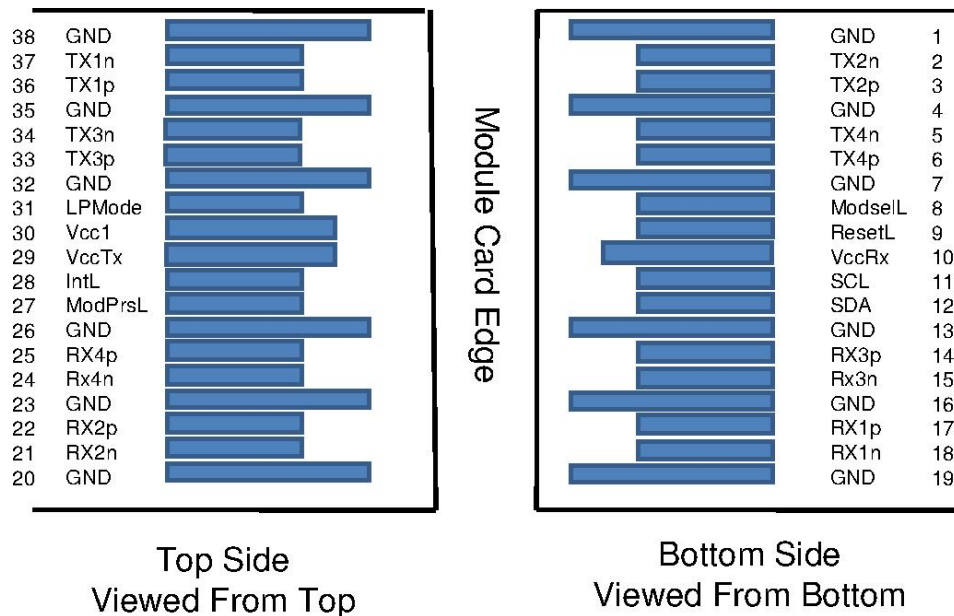
The converter is designed for an operation within a case temperature range from 0°C to +70°C at an altitude of <3km. The built in heat sink provides an optimized thermal performance.

The user needs to guarantee per system design not to exceed this temperature range. It has to be considered that in case of usage of multiple modules on a single host board that there is a temperature rise among the modules hosted side by side. Airflow direction and air speed needs to be chosen accordingly. For further information it is referred to the MSA document.

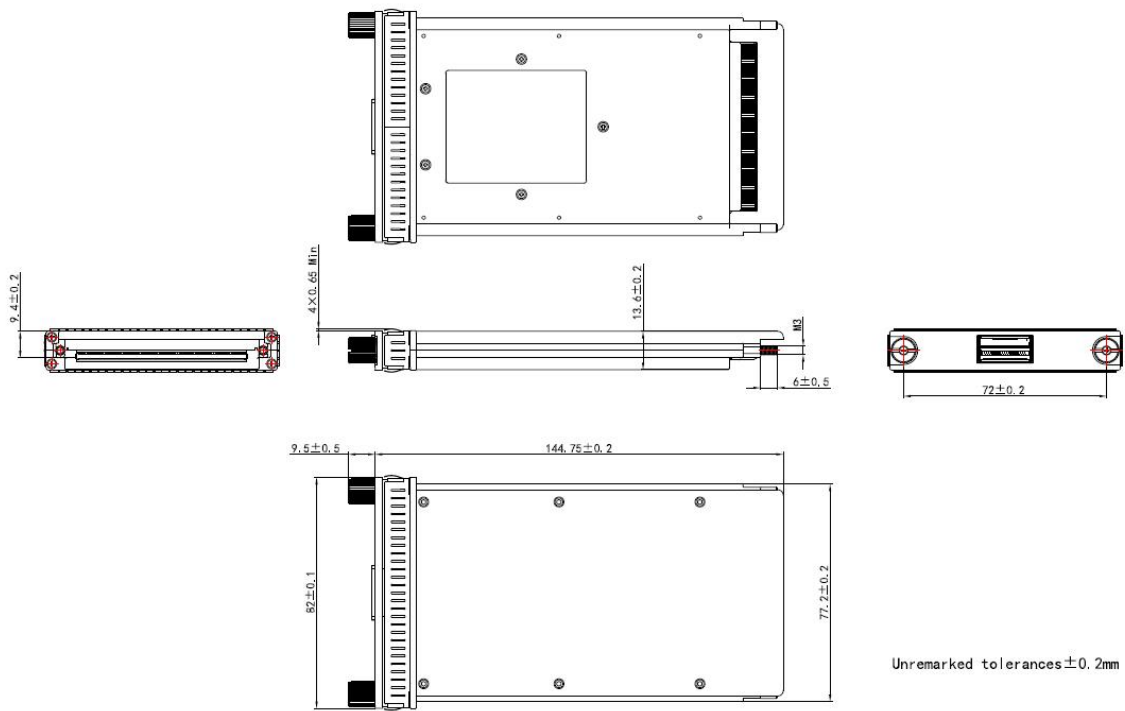
## CFP Transceiver Electrical Pad Layout



## QSFP28 Transceiver Electrical Pad Layout



## Mechanical Specification



## Further Information:

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## Disclaimer

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1. We are committed to continuous product improvement and feature upgrades, and the contents contained in this manual are subject to change without notice.

2. Nothing herein should be construed as constituting an additional warranty.

3. NADDOD assumes no responsibility for the use or reliability of equipment or software not provided by NADDOD.

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