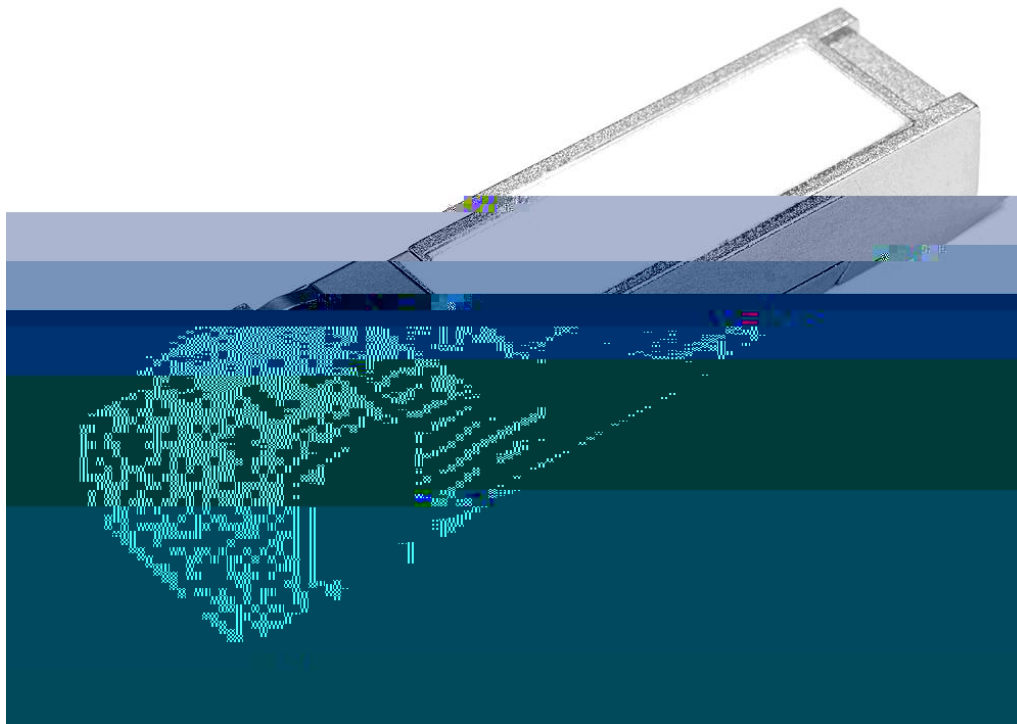


16GFC SFP+ 850nm

RTXM228-561



RTXM228-561    16GFC 850nm VCSEL  
 14.025Gb/s    FC-PI-5   SFF-8432   SFF-8472   SFF-8431  
 I2C    SFF-8472.

SFP+  
 RoHS

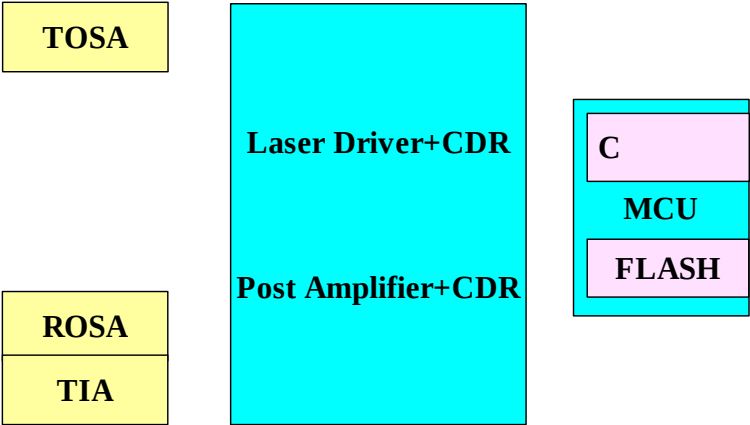
EMI  
 SFF-8432  
 14.025Gb/s

1.0  
0 ~ 70  
+3.3V  
SFF-8472

4.25/8.5/14.025Gb/s

FC-PI-5    Rev 6.00  
SFF-8431   Rev 4  
SFF-8432  
SFF-8472   Rev 11

| Specifications |      |                  |             |          |       |        |         |      |     |       |
|----------------|------|------------------|-------------|----------|-------|--------|---------|------|-----|-------|
|                |      |                  |             |          | (OMA) |        | (OM3)   |      |     |       |
| RTXM228-561    | SFP+ | 4.25~14.025 Gb/s | 850nm VCSEL | >-7.8dBm | PIN   | < 89uW | 0~70 °C | 100m | DDM | 16GFC |



|          |   |      |     |
|----------|---|------|-----|
| $V_{CC}$ | V | -0.3 | 4.0 |
|----------|---|------|-----|

|                        | Tc  | °C   | 0                 |     | 70       |
|------------------------|-----|------|-------------------|-----|----------|
|                        | Vcc | V    | 3.14              | 3.3 | 3.46     |
|                        | BR  | Gb/s | 4.25              |     | 14.025   |
|                        | BER |      | 10 <sup>-12</sup> |     | 1        |
| 50um (OM3)(2000MHz.km) | L   | m    | 100               |     | @14.025G |
|                        |     |      | 150               |     | @8.5G    |
|                        |     |      | 380               |     | @4.25G   |

Note1: PRBS 2<sup>7</sup>-1 for 4GFC and 8GFC. PRBS 2<sup>31</sup>-1 for 16GFC.

|             |                 |       |      |     |      |   |
|-------------|-----------------|-------|------|-----|------|---|
|             | V <sub>CC</sub> | V     | 3.14 | 3.3 | 3.46 |   |
|             | I <sub>CC</sub> | mA    |      | 180 | 285  |   |
| Transmitter |                 |       |      |     |      |   |
|             | R <sub>IN</sub> | Ω     | 80   | 100 | 120  | 1 |
|             | V <sub>IN</sub> | mVp-p | 180  |     | 850  |   |

Transmit Disable

| Transmitter        |           |         |      |       |     |
|--------------------|-----------|---------|------|-------|-----|
|                    | $\lambda$ | nm      | 840  | 850   | 860 |
|                    | $P_{av}$  | dBm     | -7.8 |       | 1   |
| @ 14.025Gb/s       | $\sigma$  | nm      |      | 0.59  |     |
| @ 14.025 Gb/s      | OMA       | $\mu W$ | 331  |       |     |
| @ 8.5 Gb/s         | OMA       | $\mu W$ | 302  |       |     |
| @ 4.25 Gb/s        | OMA       | $\mu W$ | 247  |       |     |
| @ 14.025Gb/s       | VECP      | dB      |      | 2.56  | 2   |
| @ 8.5Gb/s          | TWDP      | dB      |      | 4.3   | 3   |
|                    | $R_{IN}$  | dB/Hz   |      | -128  |     |
| Receiver           |           |         |      |       |     |
|                    | $P_{in}$  | dBm     |      | 0     |     |
| OMA<br>14.025 Gb/s | S         | dBm     |      | -10.5 | 4   |
| (OMA)              |           | dBm     |      | -6.7  | 5   |
| (OMA)              |           |         |      |       |     |
| OMA<br>8.5 Gb/s    |           |         |      |       |     |



