

OKI Electronic Components

OAT1043x-V1-z-yy

FEDFOAT1043X-V1-01

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OC192/STM -64 Optical Transceiver Module

APPLICATION

- OC-192 and STM-64 SERDES Transceiver

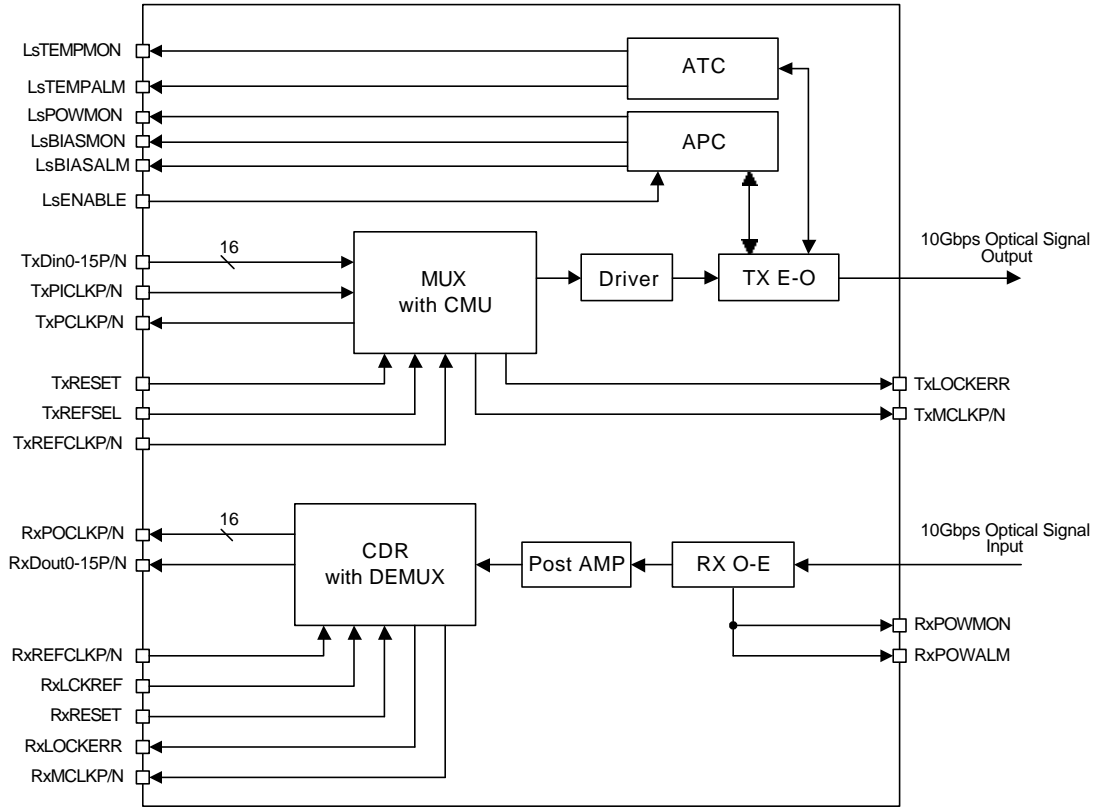
FEATURES

- Optical performance compliant with OC-192 IR-2/STM-64 S-64.2b
- Electrical interface compliant with OIF1999.102.8 SFI-4
- TX/RX Loss of Lock
- 300pins connector(Pin Assignments compliant with OIF2001.063.1)
- Supply voltage; +3.3V , +5V and -5.2V

SPECIFICATION

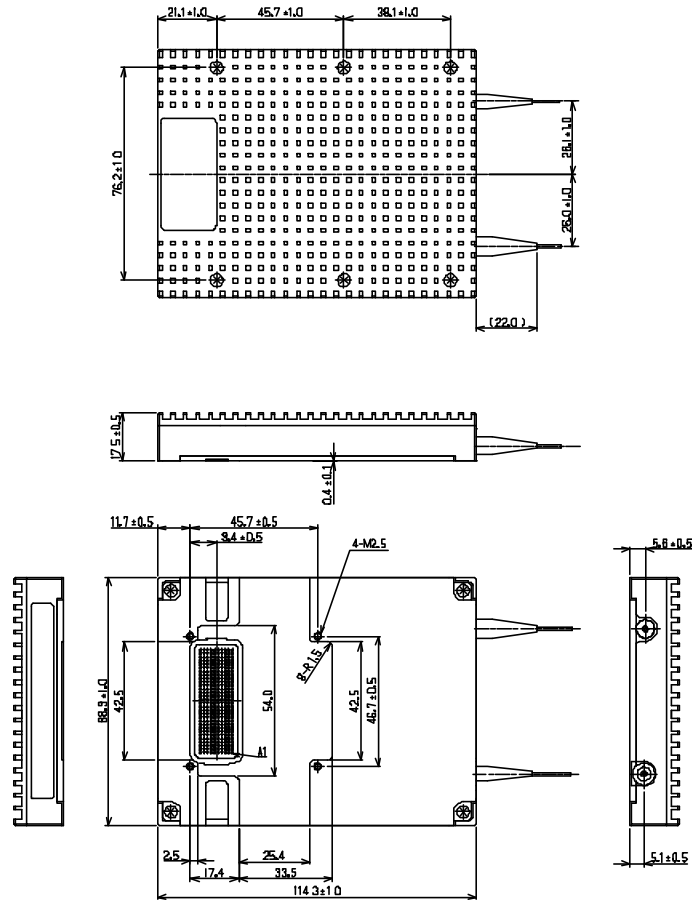
Parameter	Unit	OAT1043x-V1-A-yy
Parameter	-	IR-2
Operating Bit rate	Gbps	9.95328
Mean launched power range	dBm	-1 to +2
Center wavelength range	nm	1530 to 1565
Minimum extinction ratio	dB	≥ 8.2
Maximum spectral width	nm	≤ 1.0 (@ -20 dB)
Side mode suppression ratio	dB	≥ 30
Received optical power [BER = 10 ⁻¹²]	dBm	-14 to -1
Transmission distance	km	40
Power consumption	W	10 (Typ.)
Operating temperature	°C	0 to +65
Dimension	mm	88.9 × 114.3 × 13 (without heat sink)

BLOCK DIAGRAM



PACKAGE OUTLINE

(Unit: mm)



ORDERING INFORMATION

OAT1043x-V1-z-yy

x		z		yy	
Optical connector		Bit rate(Gbps)		Fiber length	
S	SC	A	9.95	10	1m
F	FC	B	10.3	05	0.5m
L	LC	C	9.95/10.3/10.7		
M	MU	D	10.7		

NOTICE

1. The information contained herein can change without notice owing to product and/or technical improvements. Before using the product, please make sure that the information being referred to is up-to-date.
2. The outline of action and examples for application circuits described herein have been chosen as an explanation for the standard action and performance of the product. When planning to use the product, please ensure that the external conditions are reflected in the actual circuit, assembly, and program designs.
3. When designing your product, please use our product below the specified maximum ratings and within the specified operating ranges including, but not limited to, operating voltage, power dissipation, and operating temperature.
4. Oki assumes no responsibility or liability whatsoever for any failure or unusual or unexpected operation resulting from misuse, neglect, improper installation, repair, alteration or accident, improper handling, or unusual physical or electrical stress including, but not limited to, exposure to parameters beyond the specified maximum ratings or operation outside the specified operating range.
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9. **Qualification and Reliability**
To help ensure high product reliability and customer satisfaction, OKI is committed to an intensive quality program that starts in the design phase and proceeds through the manufacturing process. Optical transceiver modules are qualified to OKI internal standards using MIL-STD-883 test methods and procedures and using sample techniques consistent with Telcordia requirements. This qualification program fully meets the intent of Telcordia reliability practices GR-468-CORE.
10. **Laser Safety**
All version of transceiver are Class 1 Laser products FDA complies with 21 CFR 1040.10 and 1040.11 requirements.
Also, all versions are Class 1 Laser products pre IEC 825-1.