Product Name	GAOTek Transceiver
Product SKU	GAOTek-CST-207
Product URL	https://gaotek.com/product/gaotek-transceiver-13/

Contact us: sales@gaotek.com

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GAOTek Transceiver

Product Description:

GAOTek Transceiver is a high-performance, cost-effective module supporting a data rate of 25.78 Gbps and transmission distance with SMF.

Product Features:

- Supports up to 25.78 Gbps bit rates
- Hot-pluggable SFP+ footprint
- CWDM Cooled EML laser and APD photodiode,
- Up to 6.21 mi (10 km) for SMF transmission
- Compliant with SFP+ MSA

Technical Specification:

Form Factor	: SFP 28
Data Rate	: 25 Gb / s
Wavelength	: 1510 nm
Fiber Type	: SMF
Maximum Distance	: 6.2 mi (10 Km)
Optical Components	: CWDM EML / APD
Transmitter Power	: -1 dBm to 6 dBm
Extinction Ratio	: >6 dB
Receiver Sensitivity	: <-14 dBm
Receiver Overload	: >2 dBm

Connector   : Double LC

Digital Diagnostic Monitoring : Yes

Environment   Operating   : 32 °F to 158 °F (0 °C to 70 °C)
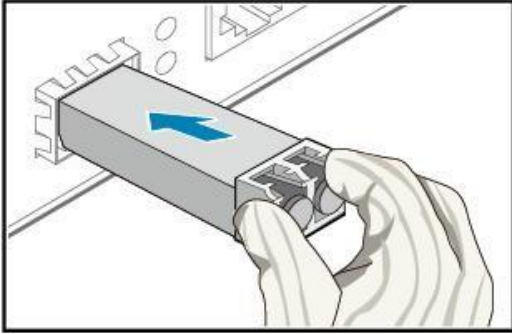
Weight   : 0.6 lb (300 g)

Product Picture**:**

Installation :

Anti-static measures

Whether indoors or outdoors, anti-static measures must be taken when using optical modules, and you must ensure that you touch the optical modules with your hands while wearing anti-static gloves or an anti-static bracelet.

Operation of pick up and down the module

It is strictly forbidden to touch the golden finger of the optical module when taking the optical module, and you must handle it with care to prevent the optical module from being compressed and bumped.


Plugging and unplugging method :

When installing the optical module, you must first insert it firmly into the bottom. Then you will feel a slight vibration or hear a "pop" sound, which means the optical module is locked in place. When inserting the optical module, close the latch; after inserting, pull out the optical module to check whether it is installed in place. If it cannot be pulled out, it means it has been inserted to the bottom.

When removing the optical module, you need to first pull out the optical fiber jumper, then pull the latch to about 90 degrees with the optical port, and then slowly take out the optical

module. Do not pull the optical module out by force.
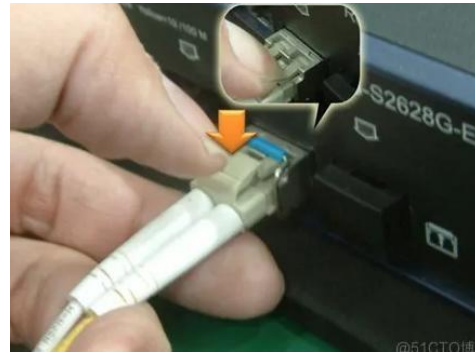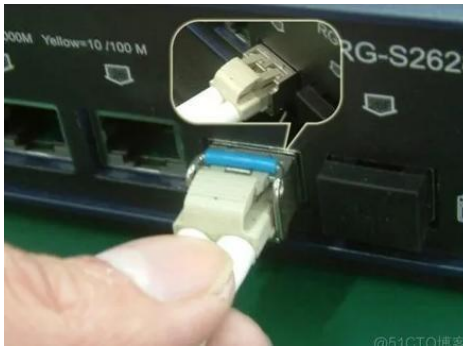
Anti-optical port pollution measures:

In order to avoid cross-pollution of the optical port due to contamination of the optical jumper end, the fiber optic jumper must ensure that its end face is clean when insert into the optical port .Therefore, fiber wiping paper must be provided during installation to wipe the end face of the optical jumper clean.

If the optical module is not in use temporarily, it must be covered with a dust cap to avoid dust contamination (if there is no dust cap, optical fiber can be used instead). If the optical module has not been used for a long time without a dust cap, you must use a cotton swab to clean the optical port when using it again.
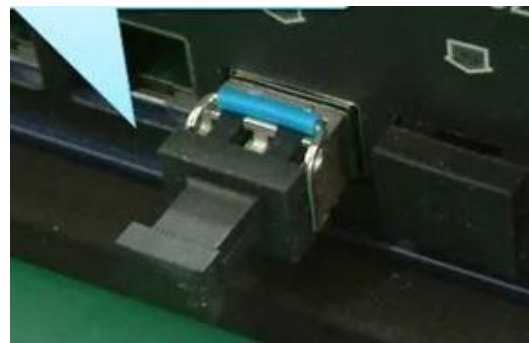
Measures to prevent overloading optical power:

When use optical modules, ensure that the light received by the optical module to be less than its saturated optical power, to prevent the components from receiving too much light and causing damage.

About the optical port:

When cleaning the end surface of the optical module, you need to select the channel washer according to the type of optical port. Before cleaning, dip the channel washer into anhydrous alcohol and insert it vertically into the inside of the optical port, and rotate it in the same direction to wipe it. Then you need to use cleaning fluid to clean anhydrous alcohol in the inside of the optical port. Repeat the above two processes until the surface of the optical port is clean.
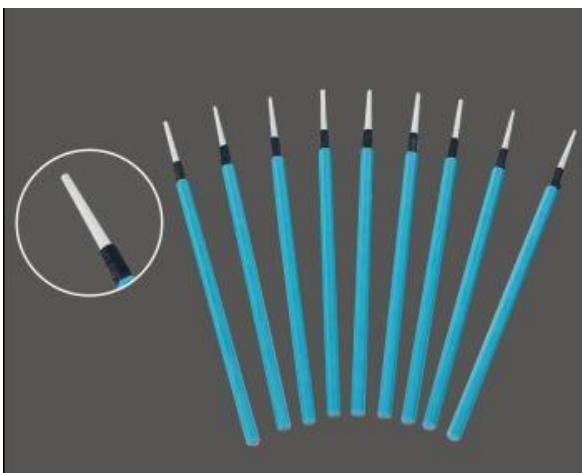
ESD Damage:

ESD phenomenon is unavoidable, but can be prevented from either preventing electric charge build up or letting discharge quickly:

1. Keep the environment in the range of 30 ~ 75% RH humidity;

2. Set a specific anti-static area, the use of anti-static floor or workbench;

3. The relevant equipment used is grounded at a public grounding point connected in parallel to ensure the shortest grounding path and the smallest grounding loop. Series grounding is not allowed. The design method of using external cables to connect the grounding loop should be avoided.

4. Operating Operate in a dedicated anti-static area. It is prohibited to place static-generating materials that are not necessary for work in the anti-static work area, such as plastic bags, boxes, foam, tapes, notebooks, pieces of paper, personal items and other items that have not been treated with anti-static. These materials must be at least 30cm away from electrostatic sensitive devices.

5. When packaging and turnover, use anti-static packaging and anti-static turnover boxes/carts

6. It is prohibited to perform hot plugging and unplugging operations with electricity on devices that are not hot-plugged.

7. Avoid using the multi-meter probes to directly detect the electrostatic sensitive pins;

8. When operating the optical module, perform electrostatic protection (such as wearing an electrostatic ring or releasing static electricity by contacting the hands with the case in advance), touching the optical module case, and avoiding touching the PIN of the optical module.