COLD PLATE LIQUID COOLING ASSEMBLY FOR OPTICAL MODULES AND NETWORK SWITCHING DEVICE

ABSTRACT

Provided is a cold plate liquid cooling assembly for optical modules and a network switching device, relating to the technical field of heat dissipation for network devices. The cold plate liquid cooling assembly for optical modules includes that: a cold plate body, extending along a first direction and including a first side and a second side opposite to each other; multiple floating heat conduction blocks, connected with the first side of the cold plate body and capable of floating along a second direction perpendicular to the first direction, where the multiple floating heat conduction blocks are arranged at intervals along the first direction, and the multiple floating heat conduction blocks are configured to be in contact with optical modules sequentially arranged along the first direction; a thermal pad, arranged between the cold plate body and the multiple floating heat conduction blocks, and in contact with the cold plate body and the multiple floating heat conduction blocks; and at least one liquid cooling tube, arranged on the second side of the cold plate body. The cold plate liquid cooling assembly for optical modules according to the present disclosure is in tight contact with optical modules inserted into multiple connectors of the network switching device. Heat generated by the optical modules during operation is smoothly and timely conducted, with high heat dissipation efficiency and excellent heat dissipation effect.

Fig 10.