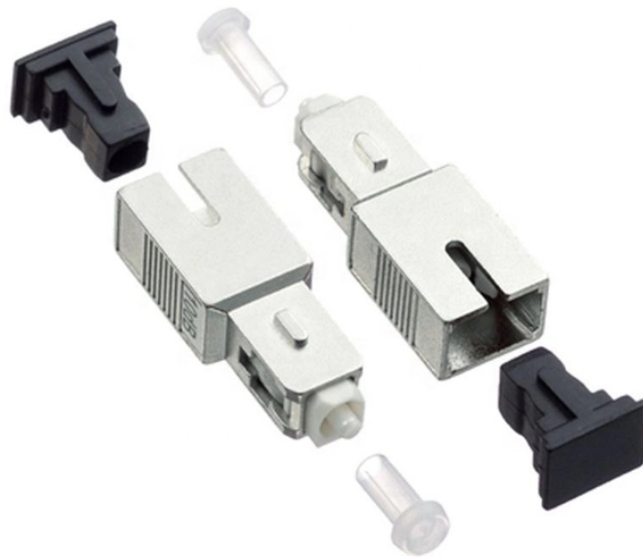


# Low-temperature resistant Austrian optical transceiver module for emergency communication



### Overview

The AFCT-5745xxxZ is high performance, effective modules for serial optical data communications applications that range from 125 Mb/s to 2. They are designed to provide SONET/SDH compliant links at 2488 Mb/s for both short and intermediate reach links. Optical transceivers are installed in radio units to transmit and receive data from the base station. Targeting high-reliability interconnects where high data rate communication links, low size, weight, and power (SWaP) as well as radiation resistance performance are required. This report summarizes the qualification tests over a range of. Samtec's FireFly™ Micro Flyover System™ embedded and rugged mid-board optical transceivers take data connection "off board" for up to 28 Gbps per lane with a path to 112 Gbps PAM4 via optical cable at greater distances, or copper for cost optimization.

## Low-temperature resistant Austrian optical transceiver module for



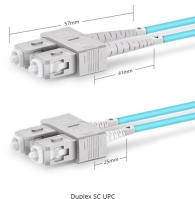
Our optical transceivers are designed to outperform in harsh environments and extreme temperatures, offering built-in EMI resistance and ensuring signal integrity and link budget under adverse ...



The objective was to design a thermoelectric cooler assembly that can remove heat generated by optical transceivers running in environments where temperatures can exceed 95°C.



In this blog post, we will delve into everything you need to know about optical transceiver operating temperatures, exploring the impact on performance, common temperature specifications, ...



The AFCT-5745xxxZ is high performance, effective modules for serial optical data communications applications that range from 125 Mb/s to 2.7 Gb/s. They are designed to provide SONET/SDH ...



We deliver high-performance 100G, 400G and 800G optical transceivers optimized for data centers, metro transport and long-haul links. Our modules meet the latest standards and integrate seamlessly ...



Through thermal management design and material selection, the module delivers adaptability to low temperatures and communication capability. Operating at  $-80^{\circ}\text{C}$ , the module is ...



Commercial temperature (C-temp) transceivers are designed to operate from  $0^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ . These transceivers suit the controlled environments of data center and network provider equipment rooms.



Sabre series size 11-02 printed circuit board mounted optical transceivers, transmitters and receivers enable high speed network communications over long distances in harsh environments.



Embedded transceivers and transceiver modules with Reflex Photonics technology for advanced interconnect based solutions. Targeting high-reliability interconnects where high data rate ...



As a VITA™ 57.1 FMC™, the Samtec 14 Gbps FireFly™ FMC™ Module can be used for optical data communication on any FPGA development board supporting high-speed multi-gigabit transceivers.

## Contact Us

For more information, pricing, or custom energy solutions, please contact us:

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