

Tunisian Liquid-Cooled Switch SFP



Overview

The JS-SM5510-A2C SFP+ transceivers are high performance, cost effective modules supporting data rate of 10Gbps and 120km transmission distance with SMF. The transceiver consists of three sections: a Cooled EML laser transmitter, a APD photodiode integrated with a trans-impedance preamplifier (TIA). Cisco is actively innovating in direct-to-chip liquid cooling for high-performance switches, laying the groundwork for solutions that will enable seamless and scalable AI at unprecedented densities. Today's rack switches are rapidly approaching their thermal limits with the jump to 400G, 800G, and. Discover multi-gigabit Ethernet switches with 2. 5G and 10G ports for blazing-fast network speeds. Explore managed features, PoE support, and compact designs. Discover how active cooling solutions for optical transceivers. Liquid cooling technology, leveraging its higher thermal conductivity efficiency and energy-saving advantages, has been introduced into the optical module field, becoming a key direction for addressing the bottleneck of high-power heat dissipation. The Firmware IDs for older versions of the firmware can typically be found in Appendix A.



Article Content

Sep 14, 2025

Liquid-Cooled Optical Transceivers for 800G/1.6T

This product line overcomes the limitations of traditional optical modules by maintaining reliability even under immersion depths of up to 10

Jun 22, 2026

Immersion Liquid Cooling Optics - GIGALIGHT

GIGALIGHT provides the smart box tools for online coding of SFP, XFP, SFP+, QSFP+, and QSFP28 optics, as well as wavelength tuning for 10G tunable XFP/SFP+ optical transceivers.

Mar 07, 2026

BT to test liquid cooling, including a Juniper/Iceotope

BT is testing liquid cooling techniques including network switches provided by Iceotope and Juniper, and new immersion players. The tests

Mar 16, 2026

Alpha Networks Unveils 1.6T Liquid-Cooled Switch at COMPUTEX

Alpha Networks addresses this challenge with its liquid-cooled 1.6T switch, delivering superior thermal performance in a more compact form factor. This not only enhances data center

Dec 01, 2025

THE ROLE OF TUNISIAN LIQUID COOLED ENERGY STORAGE

Base station energy storage lithium iron battery From a technical perspective, lithium iron phosphate batteries have long cycle life, fast charge and discharge speed, and strong high-temperature

Dec 23, 2025

Smart Switch Montable 48 ports Poe Gigabit + 4 ports

Le switch offre une surveillance IGMP, la mise en miroir des ports, le Spanning Tree et le protocole LACP, ainsi que le contrôle de flux IEEE 802.3x. Contrôle

Mar 31, 2026

10GB SFP+ Switch (8 Port

The Tupavco TP1910 aggregate Ethernet switch brings high-speeds to your network. With enough ports for all your devices, and SFP+ compatibility on all

Jul 23, 2026

SFP Transceivers Small Form-Factor Pluggable (SFP) Transceivers

Many SEL products make use of small form-factor pluggable (SFP) transceivers for fiber optic communication. See the range of SFP data rate and distance options supported.

Jan 02, 2026

Redefining liquid cooling from the server to the switch

BT kicked off the trials with a network switch cooled using Iceotope's Precision Liquid Cooling technology and Juniper Networks QFX Series

Mar 21, 2026

Data Center Ethernet Switch Connectors | Molex

High-density connectors, like QSFP-DD and SFP-DD, allow for greater port density in limited spaces. To manage heat dissipation and maintain system stability,

Dec 01, 2025

Deep Dive: Liquid-Cooled AI Switches for the Next Generation

As the demand for AI computing grows, liquid cooling technology has become the key to guaranteeing heat dissipation for high-power switches. This article delves into the design difficulties and solutions

Feb 04, 2026

Arista touts liquid cooling, optical tech to reduce power

Arista executives discuss liquid-cooled networking gear and support for Linear Pluggable Optics to achieve power and cost optimization for AI data

Oct 25, 2025

FiberMall Launches Liquid-Cooled Optical Modules and

FiberMall, a global leader in optical communication solutions, today officially announced the launch of multiple liquid-cooled optical modules and

Mar 11, 2026

Exploring the Future of AI Networking: Liquid-Cooled Switches on the ...

Imagine a data center where even the most powerful switches run cool and stable—without noise, thermal throttling, or energy waste. Cisco is actively innovating in direct-to-chip

Dec 19, 2025

Active Cooling of Optical Transceivers | Tark Thermal

Therefore, it is not expected that such a thermal solution will be cost effective for cooling of optical transceivers in outdoor environments. Figure 1: SFP

Dec 25, 2025

Immersion liquid cooling for electronics: Materials, systems ...

The current work systematically reviews the research progress on immersion cooling technology in electronic device thermal management, including the properties of immersion coolants,

Dec 17, 2025

HPE Slingshot 400 Brings a Liquid Cooled 51.2T

We saw the new liquid-cooled switch on the SC24 show floor. The switch itself is made for HPE's liquid-cooled supercomputing platforms. As such,

Mar 06, 2026

An introduction to SFP ports on a Gigabit switch | TechTarget

An introduction to SFP ports on a Gigabit switch SFP ports enable Gigabit switches to connect to a variety of fiber and Ethernet cables and extend switching functionality throughout the

Apr 24, 2026

Active Cooling of Optical Transceivers | Tark Thermal

Discover how active cooling solutions for optical transceivers enhance performance in 5G telecommunications, ensuring reliable data transmission in outdoor

Jun 26, 2026

Amazon : Sfp Switch

Discover multi-gigabit Ethernet switches with 2.5G and 10G ports for blazing-fast network speeds. Explore managed features, PoE support, and compact designs.

Jun 26, 2026

HKBN Enterprise Solutions Teams Up with Global

HKBN Enterprise Solutions partners with leading data centre operator Global Switch, offering data management solutions powered by direct

Feb 16, 2026

Iceotope and Mellanox present first ever liquid-cooled

British cooling specialist Iceotope and American-Israeli networking vendor Mellanox have joined forces to create industry's first network switches to

Dec 04, 2025

Types of SFP Transceivers: Choose the Best for Your

Industrial SFP: Designed for extreme environmental conditions, used in industries like manufacturing and transportation. Why Choose

Feb 20, 2026

Alpha : Unveils 1.6T Liquid-Cooled Switch at COMPUTEX 2025

With high-performance chips now entering the kilowatt-class era, conventional air-cooling systems face significant limitations in terms of size, cost, efficiency, and energy consumption. Alpha

Mar 16, 2026

Tunisia JS-SM5510-A2C SFP+ 10GBASE-ZR 1550nm 120km DOM

All modules satisfy class I laser safety requirements. The transceivers are compatible with SFP Multi-Source Agreement and SFF-8472 digital diagnostics functions.

Dec 25, 2025

Switch administrable TP-LINK TL-SG2210P 8 ports

Le switch smart manageable TP-LINK TL-SG2210MP vous affranchi des prises de courants. Il dispose de 8 ports Ethernet 10/100/1000 Mbps compatibles PoE+

Jul 22, 2026

TP1910 10GB SFP+ Switch (8 Port

High Speed 8 Port SFP+ Ethernet Switch A new hub for your Ethernet network The Tupavco TP1910 aggregate Ethernet switch brings high-speeds to your network.

Jan 28, 2026

Exploring the Future of AI Networking: Liquid-Cooled Switches on the ...

High-radix, liquid-cooled fabrics are poised to interconnect future GPU and accelerator clusters at massive scale, unbound by heat limits. Facility designs that anticipate and accommodate

Feb 11, 2026

What is Liquid Cooled Switch?

A liquid cooled switch is an advanced networking device designed for data centers, utilizing liquid-based cooling systems to dissipate heat more

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