Gulf Region Franchise for High-Speed Optical Connectivity QSFP



Overview

Network operators can connect to lower speed portions of their network with existing pluggable transceivers and migrate to higher speeds when ready.

Key Takeaways

Alliance Networks and OPTIMAL CONNECTIVITY are key providers enabling high-speed QSFP-based optical connectivity across the Gulf region. Key Providers and FranchisesOPTIMAL CONNECTIVITY LLC operates in the UAE and GCC, offering state-of-the-art fiber optic solutions, including high-speed connectivity for industrial, energy, and infrastructure sectors. They partner with leading European and American suppliers and act as regional distributors and resellers, providing customized QSFP-compatible solutions for enterprise and telecom applications.

Alliance Networks, based in Bahrain, is a major digital infrastructure service provider in the Gulf. They leverage the GCCIA terrestrial fiber optic system to connect all GCC countries, including Bahrain, Saudi Arabia, Qatar, UAE, and Kuwait. Their network integrates terrestrial and submarine cables, offering high-bandwidth, low-latency connectivity suitable for QSFP transceivers, cloud access, and Internet peering services.

Alliance Networks manages a 1,400 km terrestrial fiber cable interconnected with regional subsea systems, providing direct connectivity to Europe and Asia.

© 2026 EXF OPTICAL NETWORKS - All rights reserved

MEET

S (Middle East-Europe Terrestrial System) is another critical network connecting GCC states to Eurasia. It uses 100G optical transport network (OTN) technology with initial capacity of 200 Gbps and design capacity exceeding 2. 3 Tbps, supporting QSFP-based high-speed optical links.

Consortium members include Vodafone Qatar, du (UAE), Zain (Saudi Arabia), and Zajil (Bahrain and Kuwait), ensuring regional coverage and redundancy.

QSF

P Technology OverviewQSFP (Quad Small Form-Factor Pluggable) transceivers are hot-pluggable modules that provide high-density, high-performance optical connectivity. They support multiple protocols such as Ethernet, InfiniBand, and Fibre Channel, with aggregate bandwidth ranging from 40 Gbps to 1. 6 Tbps depending on the generation (QSFP+, QSFP28, QSFP56, QSFP-DD).

QSF

P modules are widely used in data centers, telecom networks, and enterprise infrastructure for scalable, high-speed optical links.

Strategic Importance

Gulf states are positioning themselves as global connectivity hubs, leveraging QSFP-enabled fiber networks to support cloud computing, AI, and digital services. Companies like Alliance Networks and OPTIMAL CONNECTIVITY provide the infrastructure and franchise partnerships necessary to deploy high-speed optical networks across the GCC, ensuring resilience, low latency, and integration with international submarine and terrestrial cable systems.

Summary

For enterprises or telecom operators seeking QSFP-based high-speed optical connectivity in the Gulf, the main regional franchises and providers include: Alliance Networks – Bahrain-based, leveraging GCCIA terrestrial fiber and submarine cable integration.

OPTIMAL CONNECTIVITY LL

C – UAE-based distributor and reseller of high-quality fiber and QSFP-compatible solutions.

MEET

S Consortium – Multi-country terrestrial network connecting GCC to Eurasia with 100G OTN technology. These providers offer scalable, low-latency, and high-bandwidth optical connectivity suitable for modern data centers, cloud services, and enterprise networks.

© 2026 EXF OPTICAL NETWORKS - All rights reserved

Article Content

QSFP-DD Optical Transceivers for High-Speed Connections

Network operators are looking for cost-optimized optical solutions that provide increased density and reduced power consumption—across high-speed as well as legacy ports—without sacrificing

QSFP-DD Optical Transceivers for High-Speed Connections

Network operators can connect to lower speed portions of their network with existing pluggable transceivers and migrate to higher speeds when ready. In addition, they can take

Optical Transceivers | Network Solutions for AI Cluster,

Learn the differences between 200G DAC and 200G AOC cables, including QSFP56 and QSFP-DD form factors, transmission distance, power consumption,

QSFP-DD Connectors, Cages and Cable Assemblies

TE''s QSFP-DD 2x1 cages and connectors add to the wide range of existing QSFP-DD surface mount products, providing customers with additional design options for 400G applications, through a robust,

QSFP, QSFP+, zQSFP, QSFP28 and QSFP56, QSFP

Our complete quad small form factor pluggable, QSFP connector portfolio includes QSFP+, zQSFP, QSFP28, QSFP56 and QSFP 112G. We provide a large range

Home | OPTIMAL CONNECTIVITY | UAE

OPTIMAL CONNECTIVITY is a leading supplier of solutions and components for RF, electrical and optical connectivity. From our regional headquarter in Dubai, we are serving GCC and MENA markets.

MPO QSFP Explained: Connectivity, Types, and Use Cases

This guide explains the fundamentals of MPO QSFP connectivity, compares it with LC-based QSFP solutions, and outlines when each approach is most appropriate in real-world network designs.

How to Achieve Interconnection Between OSFP and QSFP-DD Ports?

This article explores the characteristics of OSFP and QSFP-DD form factors and practical solutions for interconnecting devices with different ports, enabling a more flexible and scalable

QSFP Connector System

© 2026 EXF OPTICAL NETWORKS - All rights reserved

QSFP Connector System 28G NRZ, 56G PAM-4, 112G PAM-4, up to 100, 200 or 400 Gbps aggregate. Offer low insertion loss and cross talk plus excellent electromagnetic interference (EMI) containment.

QSFP Cable Assemblies | High Speed Input Output

Amphenol QSFP copper cable assemblies are designed to meet data center, networking and high-performance computing application needs for high

Ooredoo to build high-speed data network for GCC | AGBI

The project, called Gulf in Fibre, will connect the six GCC countries — Saudi Arabia, the UAE, Qatar, Bahrain, Kuwait and Oman — and Iraq with a

The Ultimate Guide to QSFP Cable: Everything You

Introduction Quad Small Form-factor Pluggable (QSFP) cables are essential in modern data centers and network environments. They can support

Understanding the QSFP Cable: A Comprehensive Guide to 40G

They are ideally suited for data centers needing short-distance high speed connectivity because of their low latency and minimal power consumption. QSFP+ Active Optical Cables (AOC) AOCs have an

What is QSFP & QSFP+ Transceiver: An Ultimate Guide

In recent years, with the increasing demand for data centers and cloud computing, QSFP transceivers have become increasingly common in the high-speed connectivity industry. However,

QSFP, QSFP+, zQSFP, QSFP28 and QSFP56, QSFP 112G | TE Connectivity

Design for the speed you need, today and tomorrow with TE Connectivity''s portfolio of QSFP connectors including QSFP+, zQSFP, QSFP28 and QSFP56 interconnects.

QSFP, QSFP+, and QSFP28: What You Need to Know About the

If you''re looking for the most advanced optical module package on the market, look no further than QSFP. QSFP+ and QSFP28 are the two latest models of this amazing technology,

SFP, QSFP, QSFP-DD, OSFP Active Optical Cable Assemblies

SFP, QSFP, QSFP-DD, OSFP ACTIVE OPTICAL CABLE ASSEMBLIES Our active optical cable assembly portfolio provides improved cable flexibility and longer reach as compared to both

Understanding QSFP-DD 400G Optical Transceivers – The Future of High ...

© 2026 EXF OPTICAL NETWORKS - All rights reserved

Data centers, cloud services, and telecom providers are constantly looking for ways to transmit more data, faster, and more efficiently. That''s where QSFP-DD 400G optical transceivers

Contact Us

Continue your research online:

Website: https://explosivefunctions.co.za
Technical inquiry: https://explosivefunctions.co.za/contact.html
EU project coordination: Parque das Nações, Lisbon, Portugal

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 EXF OPTICAL NETWORKS - All rights reserved