

# Syria High-Speed Optical Connectivity NRZ



## Overview

SilkLink is a national initiative to build a 4,500 km fiber optic cable with a capacity of 100 terabits per second across Syria. It is intended to connect Syrian cities and position Syria as a digital corridor between Asia and Europe, with submarine landing stations in Tartus and. The BARQ NET FTTP initiative represents Syria's comprehensive fiber-to-the-premises infrastructure deployment across all 14 governorates: Damascus, Aleppo, Homs, Latakia, Hama, Tartus, Deir ez-Zor, Ar-Raqqa, Al-Hasakah, Daraa, Idlib, As-Suwayda, Quneitra, and Rif Dimashq. The project, described by the government as a cornerstone of its digital infrastructure. □□ Syria Digital News Update 22. Etihad Salam Telecom (Salam) and Syria's Ministry of Communications &. The Syrian Ministry of Communications announced on Saturday the launch of a new project in cooperation with a U. -based technology company to upgrade the country's aging undersea internet cable, a move that could significantly improve connectivity in the coming months. The initiative, titled. Syria is taking a leap toward digital transformation through a landmark partnership with the Saudi Telecom Company stc Group.



## Article Content

Syrian Ministry of Communications launches SilkLink

The project will span approximately 4,500 kilometers of optical fibers, connecting the main Syrian cities (Damascus and Aleppo) with switching centers

Mastering NRZ in Optical Communications

Short-reach optical interconnects: NRZ encoding is used in short-reach optical interconnects, such as those used in data centers. Metropolitan area networks (MANs): NRZ

Stc wins bid for Syria's US\$800m Silklink fibre project

Saudi Arabian telco stc Group announced on Sunday it has signed a deal to build the Syrian government's SAR 3 billion (US\$800 million) Silklink project that aims to boost Syria's optical

Performance analysis of NRZ, duobinary, CSRZ & VSB-CSRZ

NRZ, CSRZ, and Duobinary techniques have their own strengths but lacks in spectral efficiency, dispersion tolerance, and nonlinear effects suppression when compared to VSB-CSRZ,

Syria launches fiber-optic project, boosts internet connectivity, and ...

☐☐ Syria Digital News Update 22.09.2025 The Syrian government has launched BarqNet, a nationwide fiber-optic project to bring high-speed internet to homes and businesses as part of its larger ...

Gulf Arab telecoms compete for Syria fibre optic project,

Syria's government is in talks with regional telecoms companies Zain, Etisalat, STC and Ooredoo for a roughly \$300 million project to develop the

BARQ NET FTTP

☐☐☐☐ Official RFI for Syria's nationwide Fiber-to-the-Premises (FTTP) infrastructure. Ministry of Communications invites qualified providers for VULA-based FTTP

Minister: Syria to become regional data-transmission hub

According to the minister, Silk Link will create a national, trans-Syria backbone fiber-optic network, while Barq Net will provide the fiber-optic last-mile

BarqNet Project Aims to Deliver High-Speed Internet to

The ministry aims to connect 85% of Syrian homes and institutions within two years. Construction will begin in select areas this year, with full-scale

Syrian Minister of Communications launches the "Barq Net" project to ...

Syrian Minister of Communications and Information Technology, Abdul Salam Hikil, announced today, Sunday, June 15, the launch of the "Barq Net" project aimed at connecting homes

Saudi-Syrian Silklink agreement launches \$800 million

By establishing a fiber-optic network stretching over 4,500 kilometers, the project will link Syria both regionally and internationally. Furthermore, the

BarqNet Project Aims to Deliver High-Speed Internet to

Syria's Ministry of Communications and Information Technology announced the launch of "BarqNet" on Sunday, a nationwide initiative to expand

Syrian Government Engages Gulf Telecom Giants in

The Syrian government is in active negotiations with major Gulf telecommunications companies to expand its fibre optic network in a project

Syria Partners with U.S. Tech Firm to Upgrade Internet Infrastructure

The Syrian Ministry of Communications announced on Saturday the launch of a new project in cooperation with a U.S.-based technology company to upgrade the country's aging

Performance Analysis of NRZ and RZ Modulation

The performance of Return to Zero (RZ) and Non-Return to Zero (NRZ) modulation formats in an optical communication system are investigated

PAM4 vs NRZ in High-Speed Optical Networks

Analysis of why PAM4 and NRZ signaling create different optical behaviors, loss sensitivity, and infrastructure requirements in modern high-speed networks.

NRZ to PAM-4: 400G Ethernet Evolution | Synopsys IP

Discover the benefits and trade-offs of transitioning from NRZ to PAM-4 signaling for improved 400G Ethernet data rates.

Syria launches fiber-optic project, boosts internet connectivity, and ...

Etihad Salam Telecom (Salam) and Syria's Ministry of Communications & Technology signed an MoU to establish IP Points of Presence in Damascus and Aleppo, boosting both local and international...

Syrian Telecom: A Complete Guide to Syria's Telecommunications

This article breaks down the key players, services, challenges, and future direction of Syrian telecommunications. Whether you're a researcher tracking regional telecom development, an

Investing in Syria's Fibre Optics: The Key to a Connected Future

Fibre optics are essential for Syria's future, significantly impacting connectivity and development. This section explores how high-speed internet can boost the economy and improve

For 50G transceivers, which is more advantageous:

Why NRZ Still Has a Role QSFP28-50G-LR Optical Transceiver Module NRZ remains a viable option for certain applications, particularly where

Rebuilding Syria Projects | Building & Development

SilkLink is a national initiative to build a 4,500 km fiber optic cable with a capacity of 100 terabits per second across Syria. It is intended to connect Syrian cities and position Syria as a digital corridor

Telecommunications in Syria

Prior to the Syrian civil war, telecommunications in Syria were slowly moving towards liberalization, with a number of licenses awarded and services launched in the Internet service provision market.

Syria Rejoins GSMA: Telecoms Rebuild Eyes 5G, MTN,

Syria's GSMA return enables MTN, Syriatel and new ISPs to rebuild telecoms with 5G, fibre and global tech, after US sanctions and war disruptions

Syria Partners with U.S. Tech Firm to Upgrade Internet

The first will focus on technical upgrades to increase the capacity of the existing cable system. The second, more ambitious phase involves installing

Open the Door to PAM4 Modulation

Advantages of PAM4 Modulation Higher Data Rates: Since PAM4 carries twice the information per symbol compared to NRZ, it effectively doubles

Internet in Syria: Usage, Costs & Connectivity Trends

Daily life persists in many Syrian regions unaffected by hostilities, with the internet sustaining essential communication and economic activities. Email, social

## Contact Us

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

Website: <https://www.introspec.co.za>

Email: [info@introspec.co.za](mailto:info@introspec.co.za)

Phone: +27 73 849 2156

Address: 25 Riebeek Street, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

