TEJAS® NETWORKS

POWERING GLOBAL WIRELINE AND WIRELESS NETWORKS
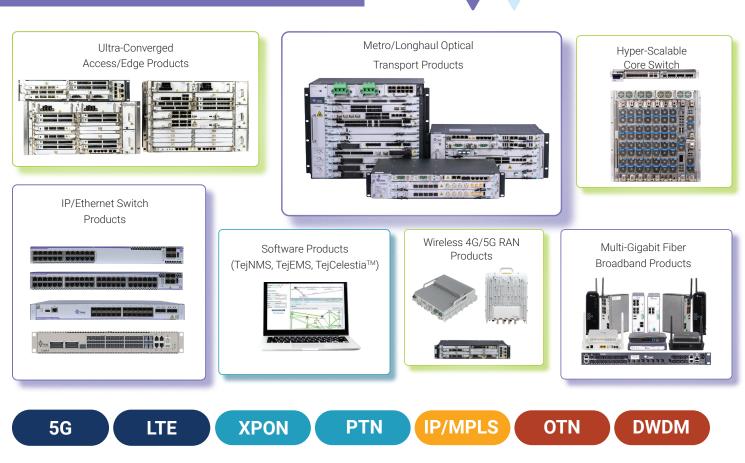
A TATA Group Company

ABOUT TEJAS NETWORKS

Tejas Networks is a global broadband, optical and wireless networking company, with a focus on technology, innovation and R&D. Tejas' carrier-class products are used by telecom service providers, utilities, government, and defence networks in 75+ countries. Tejas has an extensive portfolio of leading-edge telecom products for building end-to-end telecom networks based on the latest technologies and global standards with IPR ownership. Tejas Networks is a part of the Tata Group, with Panatone Finvest Ltd. (a subsidiary of Tata Sons Pvt. Ltd.) being the majority shareholder.

With a focus on deep technology and R&D, Tejas has a rich portfolio of patents and has shipped more than 750,000 systems across the globe. Tejas is ranked #1 in India's Optical Aggregation Market and stands among top ten players globally*.

*(*source: Omdia)*

> 750,000	> 500	> 75+	> 30+	15
Network Elements	Networks	Countries	Prestigious Awards	Global Offices

Key Applications

- Residential Broadband Services
- 4G/5G Mobile Fronthaul and Backhaul
- Premium Enterprise Services
- Data Centre Interconnect
- Wholesale Bandwidth Services
- Communications Networks for Critical Infrastructure

OUR WORLD-CLASS PRODUCT PORTFOLIO

Ultra-Converged
Access/Edge Products

Metro/Longhaul Optical
Transport Products

Hyper-Scalable
Core Switch

IP/Ethernet Switch
Products

Software Products
(TejNMS, TejEMS, TejCelestia™)

Wireless 4G/5G RAN
Products

Multi-Gigabit Fiber
Broadband Products
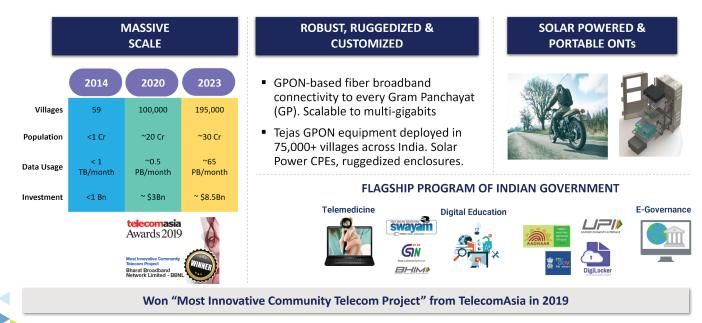
| 5G | LTE | XPON | PTN | IP/MPLS | OTN | DWDM |

PRODUCT HIGHLIGHTS

- **Hyperscale Disaggregated Optical Transport & Switching:** Innovative disaggregated architecture enables dynamic and incremental scaling of switching capacity from a few hundred gigabits to tens of terabits.

- **Integration of Access with Transmission:** Fiber Broadband (GPON), Mobile and Fixed Wireless (LTE/5G) access supported as hardware blades on optical transmission products to offer differentiated services.

- **Seamless Network Modernization:** High-density circuit emulation modules and advanced packet synchronization features for large-scale and high-performance Circuit to Packet conversion.

- **Cost-effective Upgrades:** Our products maximize reuse of hardware elements during network transition through hardware reprogramming, software upgrades, tunable optics and multi-rate cards.

- **Multi-generation Support:** Products can support multiple technology generations from same platform (2G/3G 4G/5G), (GPON->XGS-PON/NG-PON). Future-ready products are also designed for use in emerging 5G networks.

- **Software-Defined Hardware™:** Programmable silicon eases feature upgrades, quicker incorporation of new standards and protocols.

- **Advanced alien wavelength:** A solution on TJ1600 platform for seamlessly transporting high- capacity 100G/200G/400G+ wavelengths without guard bands, on a third-party 10G DWDM network is field-proven with multiple optical vendors and is gaining strong market traction with Tier-1/ Tier-2 bandwidth service providers in emerging markets.

- **TJ1400 UCB:** A unique product that converges multiple functions such as 4G/5G RAN, GPON/XGS-PON OLT for fiber-broadband access and MPLS-TP/IP/MPLS based 4G/5G backhaul in a compact shelf.

Bharatnet Innovation: Bridging the Digital Divide

MASSIVE SCALE

	2014	2020	2023
Villages	59	100,000	195,000
Population	<1 Cr	~20 Cr	~30 Cr
Data Usage	< 1 TB/month	~0.5 PB/month	~65 PB/month
Investment	<1 Bn	~ $3Bn	~ $8.5Bn

telecomasia Awards 2019

Most Innovative Community Telecom Project
Bharat Broadband Network Limited - BBNL
WINNER

ROBUST, RUGGEDIZED & CUSTOMIZED

- GPON-based fiber broadband connectivity to every Gram Panchayat (GP). Scalable to multi-gigabits
- Tejas GPON equipment deployed in 75,000+ villages across India. Solar Power CPEs, ruggedized enclosures.

SOLAR POWERED & PORTABLE ONTs

FLAGSHIP PROGRAM OF INDIAN GOVERNMENT

Telemedicine   Digital Education   E-Governance
swayam   GSTN   BHIM   AADHAAR   UPI   DigiLocker

Won "Most Innovative Community Telecom Project" from TelecomAsia in 2019

Scalable, Pan-India Optical and Fiber Broadband Networks

Utilities
100G/100G+ Coherent DWDM Networks with multi-tera OTN DXCs and Flex-Grid ROADMs

Railway Station Broadband
Enabling Wifi services in 4700+ stations in small towns and rural areas

Smart & Safe City Networks
Optical access and backbone for Smart Cities and IoT applications

National Knowledge Network
Secure, high-speed national optical network connecting 1600+ institutions