TEJAS NETWORKS

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POWERING NEXT GENERATION NETWORKS

About Tejas Networks

We are 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.

Product Brochure

Explore our portfolio of products spanning across RAN, FTTX, Optical Transport, Switching & Routing, Network Management, SatCom and D2M Broadcast

Radio Access Network

4G/ 5G Multi-Band Radios and BBUs

| TJ1400-7 UltraFlex BBU

| TJ1400-NR

| 4G/ 5G RRH/ RU/ AAUs

- Designed for superior coverage and capacity, adaptable to various single-band and multi-band scenarios.

- Advanced MIMO technology, evolving from 4T4R to 64T64R

- ORAN 7.2a and 7.2b compliant RUs

- Integrated Cell Site Routing (CSR) functionality

Tejas Networks Enables BSNL's Pan-India 4G/ 5G Wireless Network

Tejas Networks, is currently deploying a fully indigenous 4G/5G stack for BSNL, India state owned operator's nationwide network. The deployment involves commissioning of cutting-edge 4G/5G base-band and radio for more than 100,000 cell sites in India

Fiber Broadband Access

Versatile Range of xPON OLTs and ONTs

| TJ1400-1 Pizza-box OLTs

| TJ1400 Modular OLTs

| TJ2100N ONTs

- ✓ GPON, XGS-PON and Multi-PON OLTs and ONTs for Business, Residential, Enterprise and Industrial Applications

- ✓ From Compact Pizza Box OLT Chassis to Scalable Modular Units (4-128 Ports)

- ✓ ONT variants - Bridge, Wi Fi, Industrial and SFP

- ✓ High Reliability through ERPS, Type-B, and Type-C PON Protection Mechanisms

FibreConnect Italy Selects Tejas Solutions for Greenfield Network

For building a nationwide greenfield network to connect business parks, FibreConnect Italy leveraged Tejas platforms including TJ1400 UCB with GPON/XGS-PON, TJ2100N series of ONTs and Tejas NMS for unified network management.

Switching and Routing

L2/ L3 Ethernet Switches and IP-MPLS Routers

| TJ1400P – M Series Enterprise Ethernet Switches

| TJ1400P – Access Routers for Service Providers

| TJ1400 Aggregation / Core Routers for Service Providers

- ✓ Complete Range of Ethernet Switches and Routers for Service Provider, Enterprise, Campus and Industrial Networks

- ✓ Enhanced Carrier Ethernet Features, IP Routing Support

- ✓ Wide Coverage in Port-configurations, Capacities, Feature Scalability

Smart Cities Powered by Tejas Ethernet Switches

Tejas switching platforms have been deployed at a number of smart & safe city infrastructures providing support for video backhaul, Wi-Fi, public announcement systems and integrating IoT devices into NOC.

![TEJAS NETWORKS logo]

Optical Aggregation

Ultra Converged Broadband & MSP Platforms

| **TJ1400-7: Compact 2 RU Access Platform**

| **TJ1400-11: Edge UCB Platform - 5 RU**

| **TJ1400-13: High-Capacity 7 RU Platform**

| **TJ1280: Compact 1 RU Multi Service Provisioning Platform**

- ✓ 4G/ 5G BBU, Fiber Broadband, Switching, Routing & Legacy CEM in Converged Platforms

- ✓ Scalable from Megabits to Terabits

- ✓ Software-defined Hardware Architecture for simplified network evolution

- ✓ Carrier Ethernet, Circuit Emulation support

TJ1400 UCB - The Award Winning Multi-Technology Platform

TJ1400 UCB is powering multiple massive networks such as 4G/ 5G rollout of BSNL India, BharatNet rural broadband connectivity program and multiple large utility networks serving business entities across the globe.

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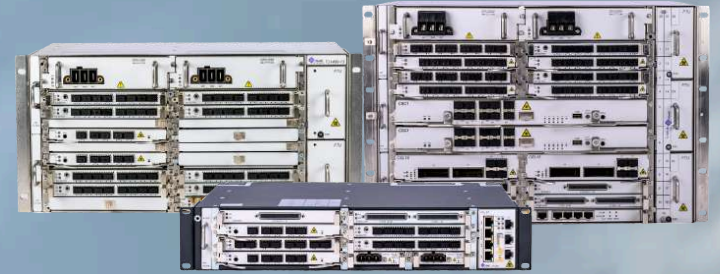
Metro Core and Backbone

Scalable DWDM/ OTN Platforms

| TJ1600-2: Micro DWDM/ OTN Platform

| TJ1600-6: Compact 4 RU DWDM/ OTN Platform

| TJ1600-11: Terabit Packet Optical Transport

| TJ1600 Core Switch: Hyperscale Disaggregated Optical Transport

- Packet, OTN, DWDM Solutions in the Same Platform

- Versatile Mix of Services from E1/GE/10GE/100GE TO OTUCn

- 100G/ 400G/ 600G/ 800G Alien Wavelength

- 1.2T/Wavelength for Future-Ready Transport

- ASON, WSON Flex Grid. Multi-degree ROADM

Alien Wavelength Support with TJ1600 - Tried & Tested Across the Globe

Multiple global operators and wholesale bandwidth providers rely on Tejas Alien Wave support due it its - proven interoperability with leading 3rd party optical platforms, seamless integration without guard band & sub wavelength traffic grooming.

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Packet Transport Network

Best-in-class, Compact Packet Switching Platforms

| **TJ1400P: Compact PTN with Advanced Ethernet and MPLS-TP Support**

| **TJ1400: High Capacity PTN Access/Aggregation Network**

- ✔ Versatile Mix of Services – From DS1/ E1 to GE, 10 GE, 100 GE

- ✔ CE 2.0 Certified for Business Ethernet Services

- ✔ Advanced Sub-50 ms Network Protection

- ✔ Circuit Emulation to Support Legacy Traffic

- ✔ Multi-level Hierarchical QoS

Tejas Networks Deploys PTN Solution for Tata Tele Business Services

Tejas have successfully deployed our TJ1400 FTTx and PTN solutions for Tata Tele Business Services, reinforcing our role as a trusted provider of cost-effective, reliable connectivity solutions

Sat-IoT Solutions

Versatile Asset Tracking & Critical Communication

| Navdoot - Two-Way MSS Terminal, Vessel Tracking System (VTS)

| SAMRAT - S-Band Satellite Phone

| Navrail - Two-Way Mobile Satellite Service Terminal

- ✔ Unique end-to-end expertise from chipset development to field deployment

- ✔ Proven experience in large-scale Sat-IoT network deployment

- ✔ Portfolio includes Satphones, Asset Tracking, Hubs, Gateways, NMS, & Apps

- ✔ Delivers converged solutions with standard/non-standard waveforms

- ✔ Unique Experience in design & development to large scale manufacturing

Deploying one of the largest Sat-IoT networks for strategic applications

Tejas Vessel Tracking Solution is being deployed for 3,000+ mechanized boats in India. It ensures maritime safety and security by connecting the boats with state-wide Command and Control Centre and monitoring stations across key harbors.

Direct To Mobile (D2M) Broadcast Solution

Multiply Your Network Capacity

| Broadcast Radio Head (40W)

| Mark One Phone

| ATSC 3.0 USB Dongle

- ✅ Converges Broadcast & Broadband networks seamlessly
- ✅ Powered by Tejas Networks' patented SDR chipset
- ✅ Predictive Offload shifts high-viewership content to Broadcast
- ✅ Delivers superior indoor coverage without mobile broadband or Wi-Fi
- ✅ Validated in stationary, pedestrian, metro, & vehicle scenarios
- ✅ Complete solution with Broadcast core & versatile RAN components

Switch to a smarter Broadcast Solution

D2M Broadcast Solution optimizes spectrum usage and enhances user experience by seamlessly integrating broadcast and broadband networks, enabling telecom providers to offload popular content from congested unicast networks.

Network Management System

Intelligent Unified Domain Controller to Manage Multiple Network Technologies

| TJ5500: Tejas Networks Management System

| TejCelestia: Automated Network Management and Service Monetization

- ✓ Unified Domain Controller - Multi-technology management from single pane of glass

- ✓ Robust Integration and Automation Framework for Deployment and Configuration

- ✓ Intent based services, ZTP, Ansible/ CLI automation, In-built bulk operations

- ✓ AI-ML Assisted Predictive Analysis and Troubleshooting

- ✓ Graphical Visualization of Network Topology, KPIs

Simplify Network Management with Unified Control

Tejas NMS is a unique system that can manage Wireless, DWDM, OTN, xPON, PTN, IP/ MPLS, MPLS-TP, CEM - all from same tool, drastically reducing operational overheads for operators. With Automation and AI, it is built to handle the scalable networks of tomorrow.

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