
SEMITA
Connectivity @ Lightspeed
SEMITA
NEXIS
DATA CENTER INFRASTRUCTURE
Connecting Networks.
Powering Infrastructure.
SEMITA
NEXIS

About Semita Technologies & Semita Nexis

One Company. Connected Infrastructure from Networks to Data Centers.

SEMITA
Connectivity @ Lightspeed

Semita Technologies is an Indian telecom and digital infrastructure company focused on developing, manufacturing and delivering solutions across FTTx, optical connectivity, 4G/5G infrastructure, copper connectivity, RF connectivity, power connectivity and related communication infrastructure.

Telecom Infrastructure | Optical Connectivity | Connectivity Solutions

SEMITA NEXIS
DATA CENTER INFRASTRUCTURE

Semita Nexis is the dedicated Data Center Infrastructure business of Semita Technologies, extending the company's physical-infrastructure capabilities into enterprise data centers, edge computing, distributed IT, telecom edge, high-density computing and AI infrastructure.

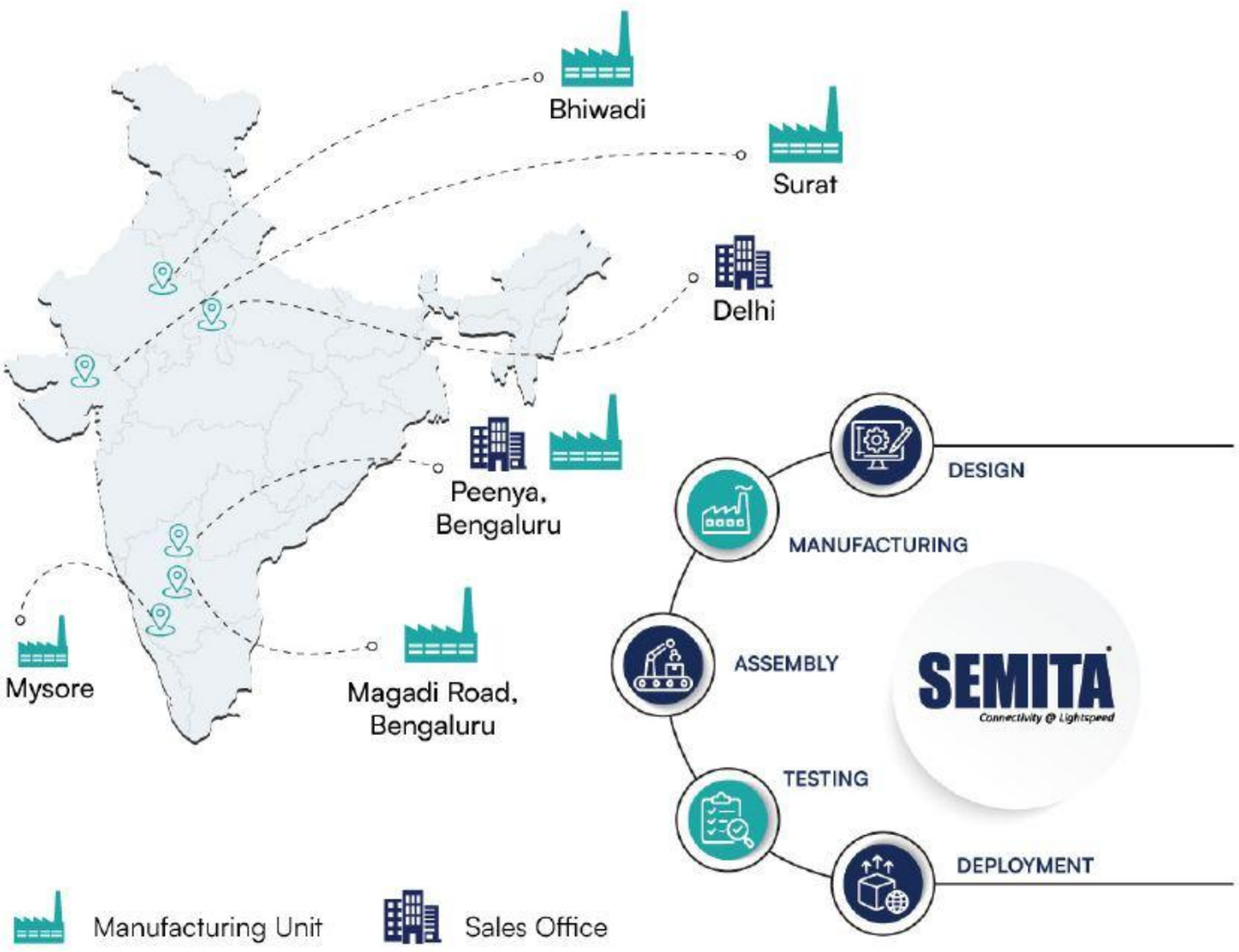
Rack | Power | Data Center Infrastructure | Cooling | Edge & AI Infrastructure

Semita at a Glance

Built in India. Engineered for Connected Infrastructure.

Semita combines design, manufacturing, assembly, testing and deployment capabilities across telecom connectivity and data-center infrastructure.

- Established in 2015
- ISO Certified
- 4G/5G Infrastructure
- Headquartered in Bengaluru
- FTTx & Optical Connectivity
- Customers include Telecom Operators and Tier-1 OEMs
- Data Center Infra



Certifications & Quality System

Excellence through Internationally Certified Quality Standards

Semita is committed to providing high-quality products and services that consistently meet customer and regulatory requirements. Our management systems and processes are certified by internationally recognized organizations.

ISO CERTIFICATIONS







CERTIFICATE OF CONFORMITY ASSESSMENT









ZED GOLD SURVEILLANCE



TM REGISTRATION CERTIFICATE





Semita Capabilities Overview

One Infrastructure Portfolio. Multiple Connected Possibilities.

From fiber to data centers, Semita delivers the building blocks for a stronger, smarter, more connected world.

Optical Fiber & FTTx

OFC up to 192 fibers, FTTH drop cables, ADS, riser, armoured, hybrid optic + power / copper as applicable.



Fiber Connectivity & Fiber Management

Patch cords, pigtails, PLC splitters, FMS, FAT, joint closures, MPO/MTP, high-density interconnect.



Optical Transceivers

1G through 400G plus specialized optical variants.



Copper & Power Connectivity

CAT6 families, patch cords, copper assemblies, power cable assemblies, grounding, armoured, screened and shielded power.



Telecom / RF/ DAS / IBS

4G/5G infrastructure, antennas, RF assemblies, GPS timing,DAS/IBS, couplers, combiners and repeaters.



Data Center Infrastructure

Delivered through Semita Nexis: Micro Data Centers, power, cooling and high-speed connectivity.





Optical Fiber & FTTx



End-to-End Optical Infrastructure

Semita supports telecom, broadband, enterprise, campus and data-center connectivity with a broad optical-fiber cable portfolio designed for access, distribution and infrastructure deployments.

High Capacity | Reliable Performance | Scalable Solutions | Built for Tomorrow

Our Optical Fiber Cable Portfolio



Multitube Cables



ADSS Cables



Unitube Cables



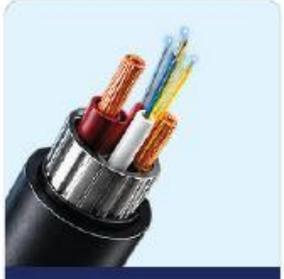
Armoured Cables



Riser Cables



Drop Cables Indoor & Outdoor



Hybrid Cables

Applications



Telecom



FTTH



Campus



Enterprise



Data Center



Fiber Connectivity & MPO/MTP

From Traditional Fiber to High-Density Data Center Connectivity

Semita delivers fiber connectivity and management solutions spanning standard patching, distribution and high-density MPO/MTP architectures for modern data-center networks.

Key Products & Solutions



MPO/MTP Cables



Single Mode Patchcords



OM2/OM3/OM4 Patchcords



Fanout Cable Assemblies



PLC Splitters



Fiber Management Systems



Fiber Access Terminal Boxes



Joint Closures

Applications



Telecom



Enterprise



Cloud Infra



Data Center

Optical Transceivers

High-Speed Optical Transceivers - 1G to 400G

High-speed optical connectivity for telecom, enterprise, cloud and data-center networks.



Speed Ladder

1G → 10G → 25G → 40G → 100G → 200G → 400G

Wide Range


AOC


SFP+


XFP


DAC


QSFP28


QSFP-DD


OSFP


CFP

Applications


Telecom


Enterprise


Cloud Infra


Data Center

Copper Connectivity



Reliable Copper Infrastructure

Semita provides structured copper and cable-assembly solutions for reliable network connectivity across enterprise, telecom, data-center and industrial deployments.

Product Portfolio



CAT6 U/UTP



CAT6 SF/UTP



Armoured CAT6 - Wire Armoured / CSTA Armoured



Outdoor with HDPE



CAT6 Cables



CAT7 Cables



CAT5E / CAT6 Assemblies



Copper Patch Cables

Applications



Telecom



Enterprise



Cloud Infra



Industrial

Power Connectivity

Power Connectivity for Critical Infrastructure

Reliable power connectivity for telecom sites, equipment, rack infrastructure and critical environments.



Reliable | Shielded | Rugged | Application-Specific

Wide Range



RRU / BBU Power Cables used in Cell Sites



Grounding Cables



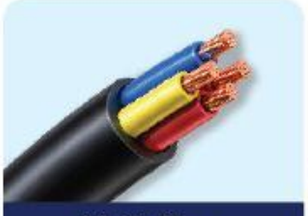
Screened Power Cables



Shielded Power Cables



Armoured Power Cables



Multi-Core Power Cables



Equipment Power Connectivity



Rack Power Connectivity

Applications



Telecom



Industrial



Equipment & Rack Infrastructure



Data Center

4G / 5G Telecom Infrastructure

Infrastructure for 4G & 5G Networks

Semita supports mobile network deployment with coordinated physical infrastructure spanning fiber, RF, power, grounding, timing and installation components.

Reliable Infrastructure	Efficient Deployment	Network Resilience	A Connected Tomorrow



Wide Range



CPRI



RF Jumper



GPS Timing Antenna



AISG Cables



Surge Protection



CAT 6 Assemblies



Power Assemblies



Cable Clamps



Grounding Kits



RF Connectors



Weather Proofing Kits

DAS / IBS

In-Building Wireless Infrastructure



Semita supports connectivity and coverage infrastructure with antenna, DAS / IBS and passive / active component portfolios.

Reliable Coverage | High Performance | Scalable Solutions

Wide Range



Antennas
GPS, Omni, Directional/Panel, SISO/MIMO Variants



RF Connectivity
RF Cable Assemblies, Jumpers, Feeder Connectivity, AISG Cables



DAS / IBS
Active DAS, Passive DAS, Indoor and Outdoor Coverage



Passive RF
Power Splitters, Directional Couplers, Hybrid Couplers, Combiners, Surge Protection



Active infrastructure
Repeaters



Omni Antennas MiMo



Panel Antennas 2X2 MiMo



RF Connectors



Repeaters



RF Distribution Cables



Hybrid Couplers



Power Splitters

From Connectivity to Compute

From Connecting the Network to Enabling the Compute

Semita Technologies has built capabilities across telecom, RF, optical, copper and power infrastructure. Semita Nexis extends these capabilities into the physical infrastructure surrounding modern computing environments.



Tower | Fiber | MPO/MTP | Optical Transceiver | Network Switch

Rack | Power | Cooling | Compute

Semita Nexis Capabilities

Data Center Physical Infrastructure

Semita Nexis brings together rack, power, cooling and connectivity to simplify deployment of modern enterprise, edge and high-density computing infrastructure.

01

RACK

IT racks, Micro Data Centers, high-density racks, containment, accessories, integrated rack monitoring.



02

POWER

UPS integration, battery systems, rack PDU, intelligent PDU, power distribution, busway, shielded power connectivity.



03

COOLING

Precision cooling, rack-level cooling, high-density cooling, immersion liquid cooling, CDU-based architectures.



04

CONNECTIVITY

Optical transceivers, MPO/MTP, fiber patching, copper patching, structured cabling, power connectivity.



Reliable Infrastructure for a Connected World

NexisRack Micro Data Center

A Complete Data Center. Anywhere.

NexisRack is an integrated Micro Data Center platform combining rack, UPS, battery, power distribution, precision cooling, connectivity, physical security and monitoring to support rapid deployment at edge, branch and enterprise locations.



Compact
Maximum capability in minimal space

Integrated
All critical infrastructure in one platform

Plug & Play
Quick and easy deployment

Secure
Physical security and intelligent monitoring

Fast to Deploy
Reduce time to operations

Scalable
Grows with your business

What's Inside?



Rack
IT rack with integrated cable management and accessories.



UPS & Battery
Reliable power protection with UPS and battery systems.



Power Distribution
Intelligent PDU for safe and efficient power distribution.



Precision Cooling
Efficient cooling for optimal performance in compact spaces.



Connectivity
Fiber and copper connectivity for seamless integration.



Physical Security
Secure access and environmental protection.



Integrated Monitoring
Real-time monitoring inside the rack.

NexisRack Product Portfolio & Capacity

From Compact Edge to Multi-Cabinet Infrastructure

NexisRack scales from compact single-cabinet edge deployments to larger integrated multi-cabinet environments.



EC20
Compact. Reliable. Anywhere.



ER03
Integrated. Scalable. Efficient.



ER05
Built for Growth.



ER07
Higher Capacity. Custom Ready.

Selection Factor	RDC-01	RDC-03	RDC-05	RDC-07
Cabinet arrangement	1 combined cabinet	1 combined + 2 IT	1 combined + 4 IT	1 combined + 6 IT
Reference UPS	3 kVA	10 kVA	20 + 20 kVA	30 + 30 kVA
Reference cooling	3.5 kW rack unit	12.5 kW in-row	2 × 12.5 kW in-row	25.1 + 25.1 kW in-row
Reference redundancy	N	N	N+1	N+1
IT capacity indicator	28U available	29U + 2 × 42U	30U + 4 × 42U	6 × 42U IT cabinets
Primary fit	Small branch / edge	Larger local IT	Resilient multi-rack site	High-capacity edge block

NexisRack Architecture & Customer Value

Integrated Infrastructure. Simplified Deployment.

NexisRack replaces fragmented site-level infrastructure integration with a factory-integrated, modular platform designed for faster rollout and more predictable operation.

Servers / Storage
Compute and storage in a unified platform

Network
SFP + MPO/MTP + Fiber/Copper

PDU
Power distribution units

UPS + Battery
Reliable power backup

Precision Cooling
Efficient thermal management

Integrated Rack Monitoring
Real-time visibility and alerts

Physical Security
Access control and door monitoring



Integrated Engineering
Pre-engineered and factory-integrated for seamless operation.

Reduced Site-level Integration
Minimizes multi-vendor coordination and onsite complexity.

Faster Deployment
Get to operation quicker with a ready-to-deploy solution.

Standardized Infrastructure
Consistent, reliable and repeatable deployments.

Rack-level Visibility
Monitor power, cooling, environment and security in real time.

Simplified Connectivity
SFP + MPO/MTP + Fiber/Copper for flexible & high-speed connectivity.

Scalable Rollout
From single rack to multi-cabinet infrastructure.

Lower Deployment Complexity
Less time, less risk, more predictability.

NexisRack Applications

Bring the Data Center Closer to the Workload

NexisRack enables standardized deployment of local compute and critical IT infrastructure where a conventional data-center build is impractical, slow or unnecessary.



Deploy Anywhere | Secure Operations | Ready for Growth

Wide Range



Enterprise



Edge Computing



Bank



Telecom



Manufacturing



Retail



Remote Locations



Branch Infrastructure



Government / Education / Healthcare

Immersion Liquid Cooling

Integrated CDU + Liquid Cooling Tank Cabinet



Advanced thermal infrastructure for AI, GPU, HPC and high-density computing workloads. The solution integrates a liquid cooling tank cabinet with CDU-based heat exchange for compact, modular deployment.

Key Features

- Integrated CDU + Tank
- High-Density Compute Support
- Modular Deployment
- Energy-Efficient Thermal Management
- Flexible Deployment
- Compatible Coolant

Value

- Higher Thermal Density
- Efficient Direct Heat Transfer
- Reduced Airflow Dependency
- Compact Cooling Infrastructure
- Higher Compute Density
- Future-Ready for AI Workloads

Key Technical Facts

Cabinet cooling capacity Up to
60 kW

Capacity Up to
60 kW

One Company.
Complete Infrastructure Vision.

From 4G/5G Networks to AI Data Centers

Semita builds the physical infrastructure that connects, powers and supports the digital world.





TELECOM



OPTICAL



COPPER



POWER



RACK



COOLING



CONNECTIVITY

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