padtec



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*Updated in March/2025

Padtec goes where no one else goes_

by bringing high-capacity connections to life. From Brazil to the Americas, from the smallest to the largest business, we are where you are.







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With a history that spans more than 20 years, _

we are honored to be a Brazilian multinational company that works alongside our customers to offer services that bring people together.

We live and breathe technology_

using our expertise to design new futures. We leverage connections and create new realities in a world that does not stop evolving. 井

P Padtec by Mexico the numbers

Headquarters

Campinas, São Paulo (Brazil) Rua Doutor Ricardo Benetton Martins, 1.000 Polo II de Alta Tecnologia Tel.: +55 19 2104-9600

CEO

Carlos Raimar Schoeninger

National offices

São Paulo – Rio de Janeiro – Brasília – Fortaleza – Curitiba

P EUA

P

Colômbia

P

Peru

P

Chile

International offices

Argentina – Chile – Colômbia – USA – Peru - Mexico

r\$ 298.8 Net revenue



PDTC3

P

Fortaleza

Rio de Janeiro

P Brasília

P São Paulo

Curitiba

Campinas

P

Argentina





Employees December/2024

EBITDA

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We transform technology so that technology can transform the world_



Brazilian multinational

with more than two decades of experience in the Telecom market;



Global supplier

with a strong presence in Latin America;



It operates in a global market worth US\$14 billion per year.



Develops, manufactures and markets

solutions for high-capacity broadband networks, based on DWDM technology;



Service Unit

for communication networks, today with more than 40 points of presence in Brazil, Argentina and Colombia.

Leaders The people that drive our connections



CEO AND INVESTOR RELATIONS DIRECTOR, INTERIM CFO Carlos Raimar Schoeninger_

With a Master in Business Administration from Fundação Getúlio Vargas (FGV), Raimar has over 20 years of experience in executive positions in the telecommunications, electromechanics, oil products and food sectors.





vp of equipment operations Argemiro Sousa



CHIEF LEGAL COUNSEL AND COMPLIANCE OFFICER

Patricia Iqueda_





vp of platforms and solutions Alexandre Piovesan

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╬ Values



Exceed expectations

Our bar is set high. We always look ahead, investing in excellent, long lasting and exceptional solutions.

Working together to increase knowledge

In our universe, everything depends on teamwork. We value our collective intelligence, as diverse as the challenges we solve.

Respect people, respect the future

We exist to improve people's lives. Respect, accessibility, honesty, transparency and ethics in relations are our values; to make an increasingly positive impact on the sector is our goal.

Challenge the complexity

Whether it's a new technology or service, special requirements or network performance, or even the analysis of a large volume of information, our industry seems complex – and it is.

But for us, it is an opportunity to take on and overcome challenges.

Create value for everyone

Each part of our ecosystem should benefit from our actions, improve their outcomes, differentiate themselves and retain their customers.

The world connects and both society and the economy win.

In short: we connect Brazil and the world and our shareholders receive the return they deserve.

History



2001 \bigcirc

Padtec starts

as a spin-off from CPQD's optical communication laboratories, manufacturing and supplying long distance DWDM systems.





Padtec acquires important clients

and begins its expansion throughout Brazil.

2002 - 2006

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2010 - 2013

It completes a decade of operations

with more than 100,000 km of backbone networks installed throughout South America and attracts a new investor: BNDESPar, the BNDES' shareholding arm. It also opens its commercial office in the United States.

Padtec connects Brazil and the world

in the greatest World Cup of all times, performs the Sea Trial of its submarine repeater in the Caribbean Sea and implements a system with sub-fluvial cable in the Rio Negro, in Manaus.Negro, en Manaus.

2014 - 2016



2017 - 2019

Delivers its first deployment of an underwater optical network to Google_

Padtec completes the sale of the subsea systems division and its OTN Switching business unit to important multinationals in the sector.

Padtec completes the merger of its shares into Padtec Holding

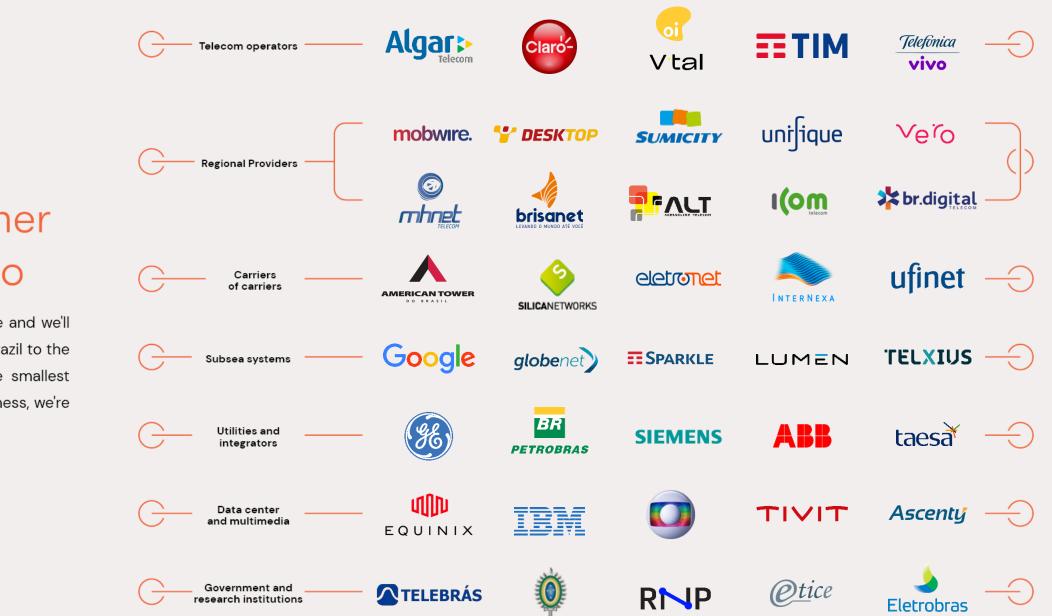
to raise capital on the stock exchange and expand its investments in the development of cutting-edge technology and expansion into new markets. Enters the switches and routers market.

2020 - 2024



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Eletronorte

Customer portfolio

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We've said it before and we'll say it again: from Brazil to the Americas, from the smallest to the biggest business, we're where you are.

Made by people, for people

570* 🔏 400* 🕅

employees and interns working in person, hybrid or fully remote

employees at the company's headquarters in Campinas

160* 🦻

Employees spread throughout Brazil, Argentina, Colombia, Chile and the USA

86%

is the engagement rate of the company's employees*

 $23^{\%}$

of employees are women



of women in leadership positions Generations**

1.1[%] 24.2[%] 65.5[%] 9.3[%]

Baby boomers

(born between 1940

and 1959)

Generation X (born between 1960 and 1979)

Generation **Y** (born between 1980 and 1999)

Generation Z (born between 2000 and 2010)

 6

of employees with college

4% with completed

doctorate and master's degrees $23^{\%}$

of the company's employees are engineers

* Source: Padtec Climate Survey 2023 ** Definition by Sidnei Oliveira

Data from December/2024

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Business Units

Understand how we create new realities.

Business units

Products

- LightPad Platform i6400G
- LightPad Max Platform (2.4T)
- DCI Generation Platform (1.2T)
- 400G Standalone
- Switches and Routers
- QSFP-DD Transceivers
- LightPad OTDR Platform

Services

- Network Maintenance
- Network Management
- Characterization
- SPaaS (Spare Part as a Service)
- Fiber Monitoring
- Training

Digital Solutions

- Smart Site
- Smart Workspot
- InovaTEC

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Wet Plant

- River Cable Projects
- Submarine Cable Projects
- Wet Plant O&M





LightPad i6400G: a platform for the most diverse solutions

Our platform delivers a carrier-class solution for high-capacity multi-service transport across diverse network architectures.

Applications

- Terrestrial and submarine backbones
- Metro and aggregation networks
- DCI and SAN extension scenarios

Technologies

- DWDM (Dense Wavelength Division Multiplexing)
- ROADM WSS (Wavelength Selective Switch)
- OTN (Optical Transport Network)
- ODU-XC (ODU cross-connect)

14U Capacity: 12,8 Tb/s 4U Capacity: 4 Tb/s **2U** Capacity: 1,8 Tb/s



Product family



Muxponder Dual 400G

Network Interfaces

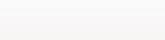
- 2x CFP2-DCO 400G
- Rate configurable from 100 Gb/s to 400 Gb/s
- Client Interfaces
- QSFP28 SR or LR
- Up to 8x 100G
- Port activation by license
- 4x100G dual muxponder application
- ALO protection features
- (Auto Laser Off), Loopback y OSNC

Combiner 200G TCX200G-9A

- Line interfaces
- CFP2-DCO, applications:
- 1x CFP2 200G
- 2x CFP2 100G
- Client Interfaces
- QSFP+

- 2x QSFP+/QSFP28 up to 100G
- Protocols: 4x10G/40G/100G
- SFP+ client interfaces
- 12x SFP+ up to 16G





Business units

Linecards 100/200 Gb/s

- Muxponder 200G (2x100G)
- Regenerador 100/200G (2x100G)
- Dual 100G ((2x100G)

Linecards 10Gb/s

Applications

- Dual Terminal
- Protected ring (x-connect)
- Operation mode
- 2x OTU2
- 3x OTU1

Functionalities

- OSNC protection (route)
- ALO for use with optical switch





Passive Solutions

Mux/Demux Low Loss

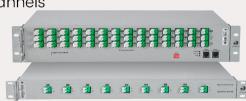
- Low loss Mux/Demux developed specifically for this application
- Network design and performance guaranteed by Padtec
- Possibility of using amplifiers for link extension

Mux/Demux 48 channels with and without VOA

Complete portfolio for Add/Drop channels.

Mux/Demux from 4 to 96 channels

- Standalone mechanics
- Options with VOA
- Colorless Options
- 2, 4 and 8 channel OADMS



Passive Box

Entry solution for DWDM technology
Colored SFP+ for use directly with switches and routers



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OADM Optical/Add-Drop/Multiplexer



Amplifiers

High performance, low noise figure





Raman and ROPA

Amplifiers EDFA

C+ Band

• EDFA 21 dBm • Raman 29 dBm • Hybrid EDFA + Raman

• 18 dBm family

C Band EDFA

Hybrid R2

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• Super compact Hybrid Amplifier with integrated Transmit EDFA, Receive EDFA and Raman stages

Special solutions

- Raman 33 dBm
- ROPA C+
- ROPA optimized for few channels

Optical switches

OPS-Hx (Optical Protection System)

Characteristics

- Switching time <15 ms
- Route monitoring
- Single and Multimode Models
- One or two switching units on the same module







Wavelength Selective Switch WSS9-9A and WSS4-9A ₩ **Functionalities** ROADM End-to-end provisioning WSS • Automatic EQ ROADM • Protection 1+1, 1+R and 1+1+R WSS Architecture: Directed ROADM WSS ROADM WSS Directionless × ↓ ₹ Colorless

FlexGrid

Wavelength Selective Switch WSS2-HA

• 2 degrees

5

- Characteristics:
- Ring topology
- Low insertion loss
- Embedded OCM
- Protection and restoration ready



OCM-HR

High Resolution - Optical Channel Monitoring

• Power monitoring and OSNR of DWDM channels

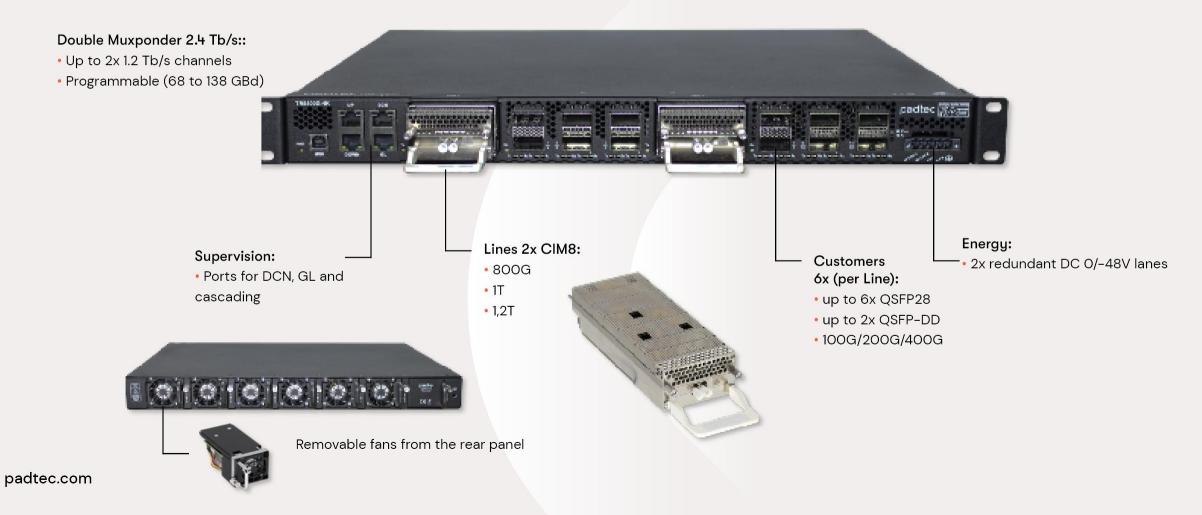
- 8 independent monitoring ports
- Compatible with FlexGrid channels • Applications for networks without WSS or at WSS nodes





Business units

LightPad Max



Products

Business units

DCI Generation Platform

Padtec Muxponders 1200G and 800G

If you have Padtec technology, capacity is included.

The TM1200G and TM800G muxponders are ideal for very high capacity applications in short, medium and long distance DWDM

) TM1200G

(1.

- Transmission rates from 100 Gb/s to 600 Gb/s
- Configurable modulations: DP-QPSK to DP-64QAM
- Transmission capacity of 38.4Tbps in the C+ Band
- Support for Fine Tuning
- Compatible with MicroMux module
- 27% SD-FEC* for "Ultra High Gain"
- Maximum power consumption: 340W

TM800G

- Transmission rates from 100 Gb/s to 400 Gb/s
- Configurable modulations: DP-QPSK to DP-16QAM
- Transmission capacity of 25.6Tbps in the C+ Band
- Support for Fine Tuning
- Compatible with MicroMux module
- 27% SD-FEC* for "Ultra High Gain"
- Maximum power consumption: 340W



Products

Business units

Dual 400G Transponder

Standalone transponder with up to 400 Gb/s (per optical channel) ideal for point-to-point applications or traditional DWDM solutions

TMD400G-SD

• Standalone mechanics with low rack space requirements (IRU height)

- Low cost coherent solution from 100G to 400G
- Used in single wavelength point-to-point systems
- Traditional DWDM application
- Network interface based on the new 400G ZR standard
- Entry level solution with built-in supervisor





Switch and router platform



Access networks S9510-28DC

Responsible for providing direct connectivity to residential and corporate users, the access infrastructure provided by the partnership between Padtec and **UfiSpace** features open access routers that are temperature resistant, compact and easy to maintain.

- 2 doors 100/400G QSFP-DD
- 2 doors 40/100G QSFP28
- 24 doors SFP28 10/25G
- 800 Gb/s switching capacity



Aggregation networks S9600-56DX

The aggregation systems delivered by the partnership between Padtec and **UfiSpace** use switching techniques and advanced routing, to aggregate traffic from multiple access points, effectively directing you to the highest capacity aggregation nodes.

Business units

- 8 doors QSFP-DD 40/100/400G
- 48 doors QSFP28 de 40/100G
- 4 doors 1/10/25G SFP28
- 4,8 Tb/s switching capacity

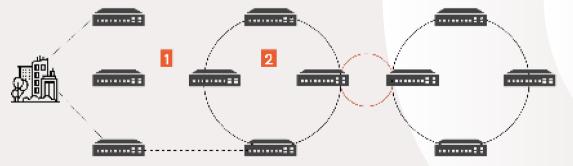
Network Operating Systems

The functionalities are enabled through OcNOS (**IPInfusion** software).

Funcionalidades:

- Routing (Layer 3)
- Multiprotocol Label Switching (MPLS)
- Layer 2 VPN (L2VPN)
- Layer 3 VPN (L3VPN)
- Virtual Extensible LAN (VxLAN)
- Segment Routing (SR)

1 S9500 Family **2** S9600 Family



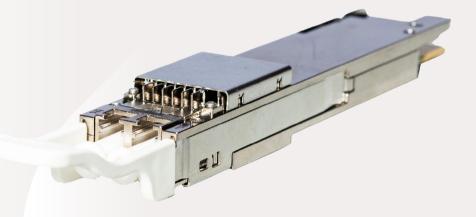
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QSFP-DD Transceivers

Now, DWDM extends to routers and switches.

Padtec launches the 400G QSFP-DD module, a high-density pluggable solution compatible with switchesandroutersfromvariousmanufacturers. Ideal for 100G to 400G transmissions, this module is perfect for ROADM systems, simplifying networks and reducing costs. Following the OpenZR+ standard, it offers high performance and interoperability, making it efficient for DCl, regional, and long-distance applications.



Products

Business units

LightPad OTDR Platform Optical Time-Domain Reflectometer

Monitoring, in real time, the status of your network.

The latest generation product, which is part of VIAVI's OTDR OTU-5000 series, remotely and automatically monitors the integrity of optical fibers.

- Unit with 3 slots for OTDR or WDM filters
- Number of fibers monitored: 4, 8 or 16
- Low power consumption (10W)
- Range of ~120 km (Dynamic Range: 39 dB)
- Monitoring of active or dark fibers
- Network operating band 1260 nm to 1580
- Graphical interface with conventional OTDR traces



Monitoring Software





Products

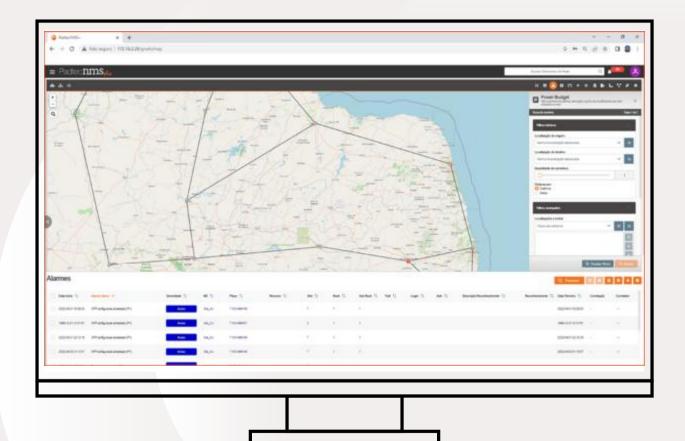
Business units

Padtec NMS+

It's never been easier to manage your network

Comprehensive web management platform for DWDM networks.

- Web interface for board management
- New platform administration tools
- Supports high availability platforms
- Graphical interface for managing geolocated networks
- Addition of new provisioning features and restoration services
- External authentication support
- Displays a list of correlated alarms
- Web based



Services

Business units



Network Operation and Maintenance

- More than 40 MCs (Maintenance Centers) throughout Brazil, Argentina and Colombia;
- Four-hour service agreements (SLA) for the start of service in any section of a monitored network.



Network Management Padtec is always with you.

To fully monitor and manage routes, built with different technologies, in real time, Padtec also offers network operation and maintenance services from its Network Operations Center (or NOC).

- 24x7 operation;
- Performance Reports;
- Real-time monitoring.



Characterization

For systems already in operation, the fiber characterization service helps plan expansions or even identify bottlenecks that are affecting the network's competitiveness.



Spaas – Spare Part as a Service

Service for contracting spare parts for immediate replacement in cases of original equipment failure.



Fiber Supervision

Through its NOC, Padtec offers the supervision of both the monitoring systems and the fiber itself, providing information on degradation events, and precise geolocation of faults, in addition to attenuation history.



Training center

Basic and advanced modules for entry level and ongoing training.

Padtec's varied training portfolio includes theoretical courses in the areas of network planning and engineering and practical courses in the areas of operation and maintenance of DWDM networks.

Digital Solutions

Business units



Smart Site

Monitor your site from anywhere: with the service, operators and ISPs can remotely monitor and control the elements that make up the infrastructure of their network environments in real-time.



InovaTEC

Padtec, through InovaTEC, offers consultancy services to transform the telecommunications sector with innovative digital solutions. InovaTEC develops customized strategies, enhancing efficiency and sustainability with a flexible and agile approach that anticipates future demands.



Smart Edge

Smart Edge is a rack-mount data center solution that includes precision air conditioning, environmental sensors, uninterruptible power and fire protection systems, among other features required for a local or edge data center. The solution can also include Smart Site for remote, realtime management of the entire network environment.



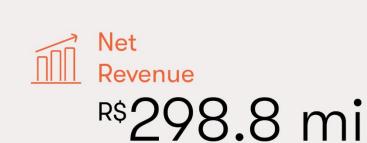
Smart Workspot

Developed in-house, the software enables integrated management of teams and response times, and can be customized for each operation. The Smart Workspot includes an app with offline access, ensuring productivity and data updates even in remote locations or areas with limited connectivity.











^{R\$}43.1 mi

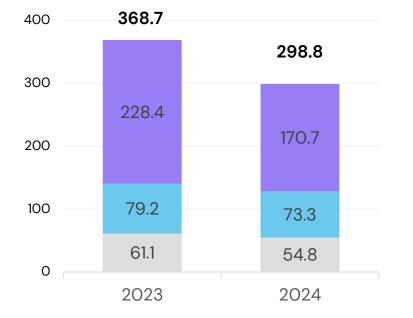


Gross



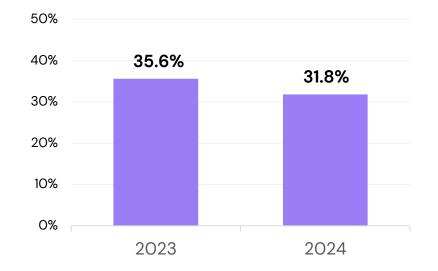


Net Revenues (R\$MM)

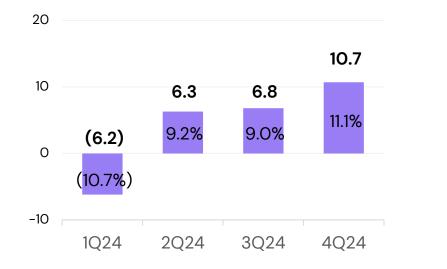


Equipment BrazilEquipment Foreign MarketServices, Software & Platforms

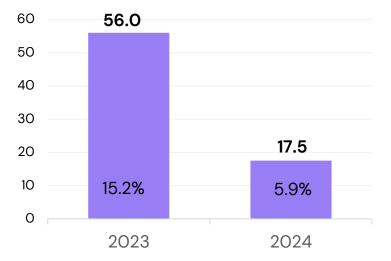
50% 40% 31.5% 32.1% 35.7% 20% 10% 0% 1Q24 2Q24 3Q24 4Q24

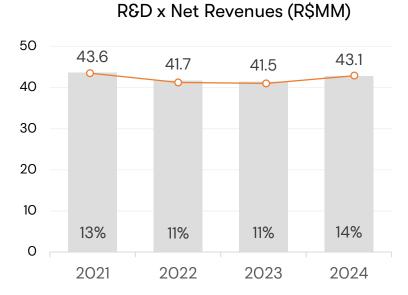


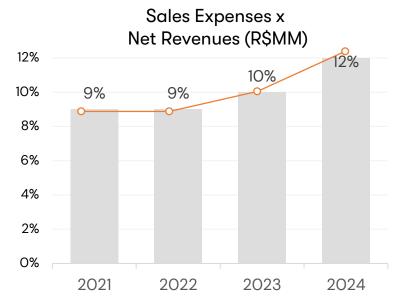
Gross Margin (%)



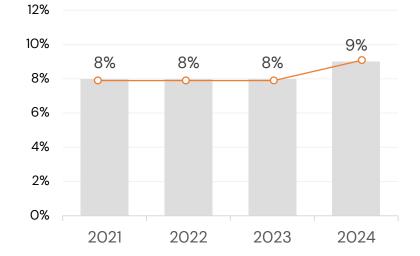
EBITDA (R\$MM); EBITDA margin (%)



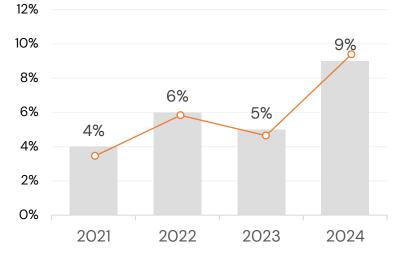








Financial Expenses x Net Revenues* (R\$MM)



* Does not consider exchange variation.

Net Debt / EBITDA (X)

Leverage

149.2

2024

8.51

9

8

7

6

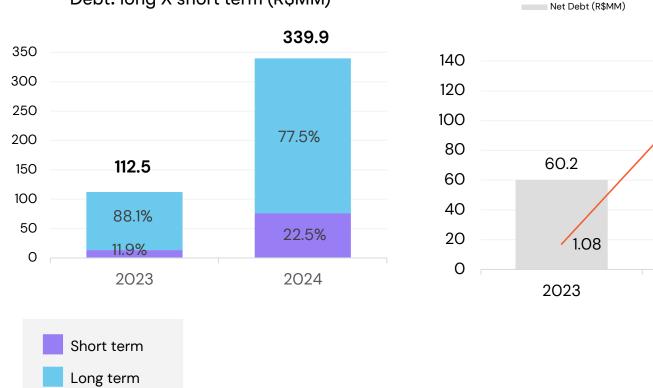
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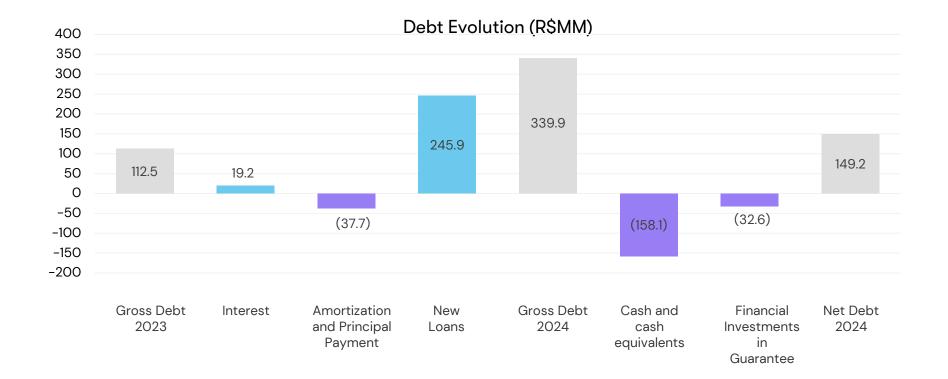
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Debt: long X short term (R\$MM)

- The effects of the Covid-19 pandemic, customer financing, and the restructuring of Padtec's workforce resulted in higher cash consumption
- Cash availability results in greater liquidity and capacity to support organic growth
- 78% in long-term obligations, average funding cost of **8.4% p.a.** in 2024



Growth opportunities

What about the future?_

In 2025, Padtec's focus will be on continuing YoY growth, diversifying revenue sources and intensifying international market development.



International expansion

- Increase market share in the countries where we already operate
- Increase sales in the North American market and in new markets using specialized channels
- Develop channels in EMEA and Sub-Saharan Africa
- Strengthen financing structures for international customers



Growth in the customer base, loyalty and totalization

- Financing for local (Brazil) and international customers
- Best-in-class support including fast ٠ delivery
- Spare Part as a Service (SPaaS) services ٠ and equipment leasing contracts
- Launch of new products and services, • software and platforms to improve operators' performance



Increase the range of products and services offered

- Make a strong debut in the switches and routers market
- Continue the growth path in the Services, Software and Platforms unit
- Launch of new mission-critical software and enter into NOC and specialized services contracts
- Solutions through partnerships and/or acquisitions of other companies
- Solutions for the 5G network ecosystem
- Solutions for the Cyber Security and network security markets
- Accelerate sales to the Edge Datacenters market (in partnership announced with TrustedData)
- Materialization of the sales pipeline for projects for submarine and subfluvial networks



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transform Driving connections to create new realities revolutionize