

# CENTAURI

# WIRELESS LASER COMMUNICATIONS







#### SPEED TO MARKET

No Right of Way Needed. Rapid Deployment Time. No Trenching and Digging.

#### HIGHEST BANDWIDTH

Fibre Alternative or Microwave Replacement. Line Rate Throughput Scaling Up To 100Gbps In Future

## LOWEST TCO

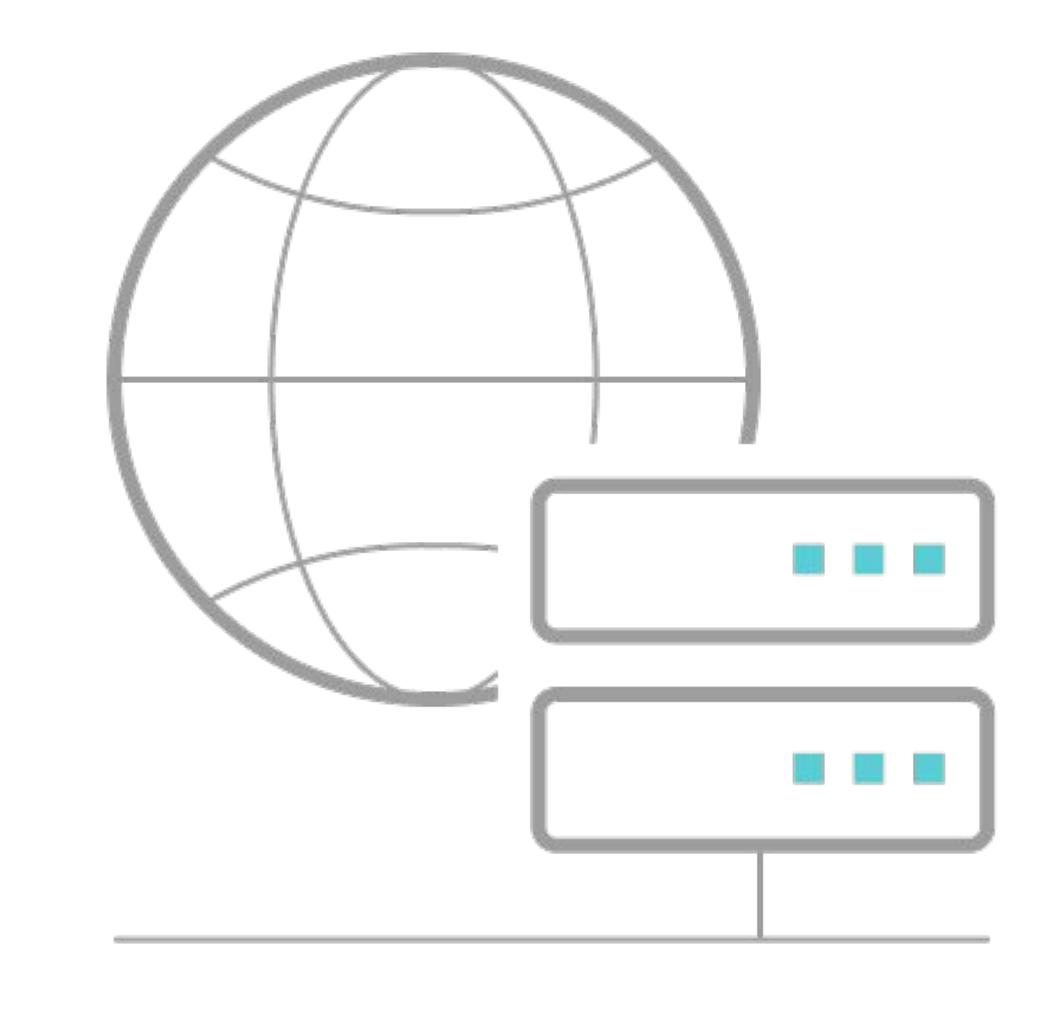
ZERO Spectrum Costs. ZERO Fibre Laying Costs. Opex Pricing Options.

# INDUSTRIES AND USE CASES



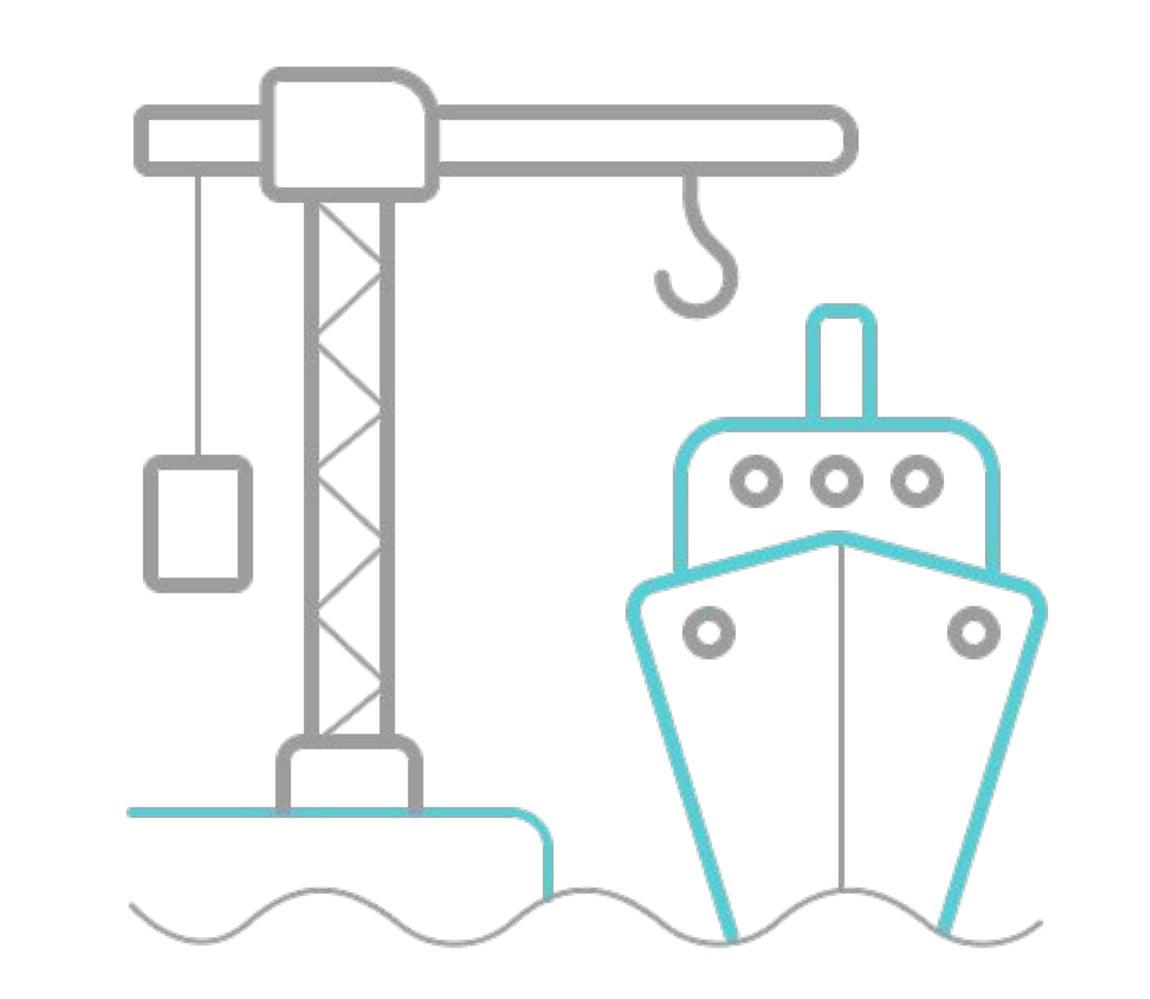
# TELCO

Enhance and expand services, supporting 4G/5G backhaul and fronthaul, and last-mile connectivity to new and underserved communiities.



#### **SP**

Accelerate capacity expansion, enable new market entry, and reduce the time it takes to move from "signup" to "revenue" from new subscribers.





# LARGE CAMPUS

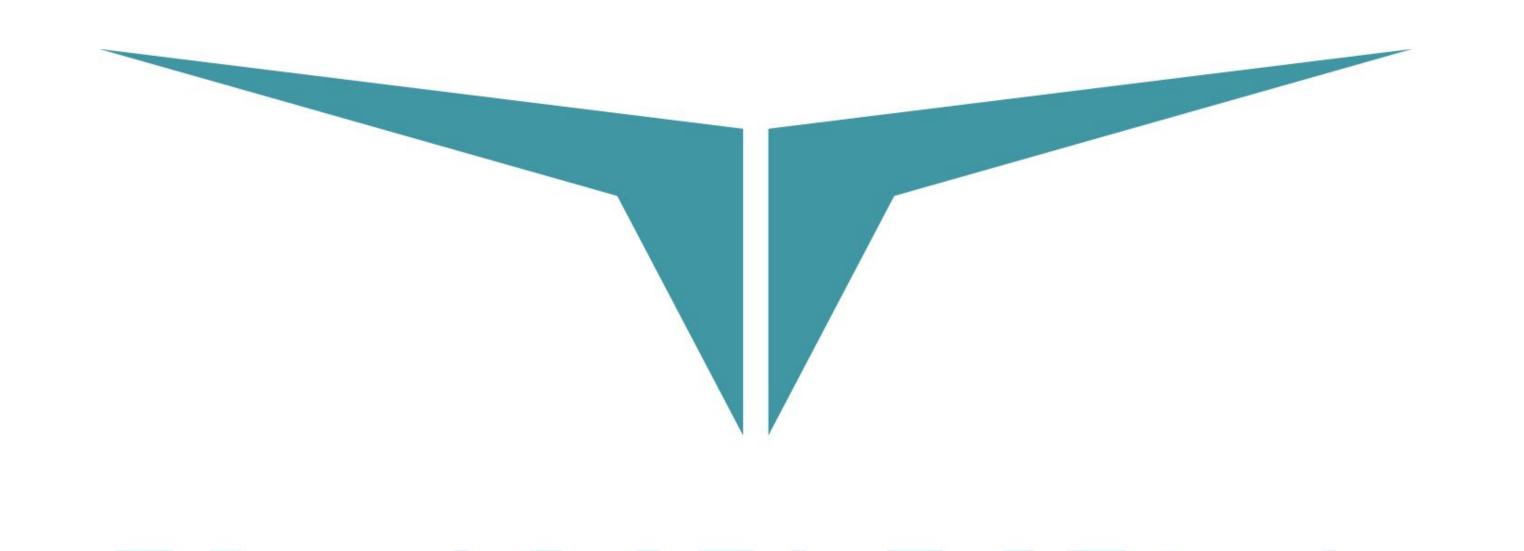
Fast and easy deployment for campus-wide connectivity. Expand network capacity to support high-volume data flows and support mission-critical applications in record time.

sales@transcelestial.com

## DEFENCE

Deploy 10Gbps line-of-sight links in a matter of hours. Inherently secure and jam-proof communications in a lightweight, low-power design for mobile deployments.

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# **COMMUNICATION SYSTEM**

Models	CENTAURI 1G	<b>CENTAURI 10G</b>
Max. Throughput	1 Gbps Full Duplex	10 Gbps Full Duplex
Data Interface	SFP	SFP+

#### **Typical RTD at 3km**

< 25 µs

## **Operating Range** 200m to 3km+ 99% to 99.999% dep. on Rain Zone

#### Wavelength

1550nm

#### Automatic Power Control

Up to 23dBm/199mW

Automated Pointing & Tracking

Proprietary Realtime Laser Stabilization Range: Horizontal: ± 2°, Vertical:± 2°

Management Interface

100 BASE-T (RJ-45)

Network Monitoring & Configuration Outband
Transcelestial NMS
SNMP (v3)

#### Installation Environment

## Intended for Outdoor Use

Communication Protocol

OSI Layer 1 (PHY)

Synchronisation

Pass-Through Bridge

COMPLIANCE & SAFETY

**General Safety** 

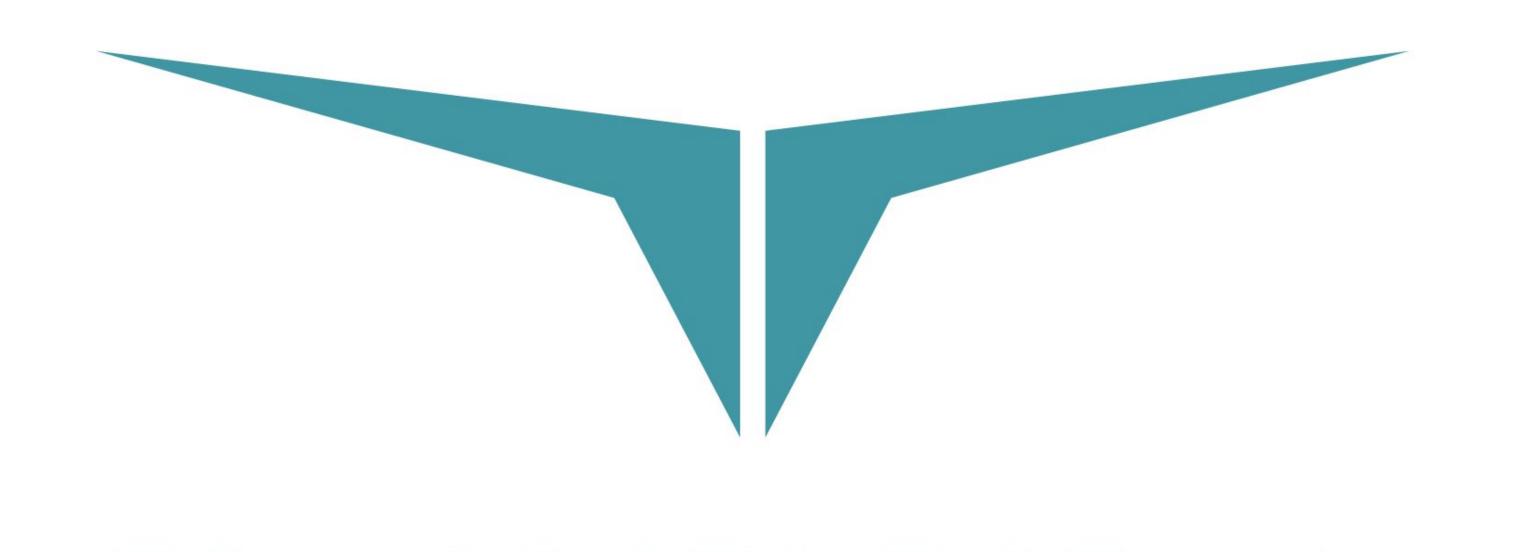
IEC 62368-1:2014+A11:2017

Laser Safety	Optical interface: Class 1/1M SFP/SFP+ IEC/EN 60825-1	
<b>EMI/EMC Interference</b>	FCC 15B, EN55011, EN 55032/35/24	
<b>Quality Standards</b>	ISO 9001, ISO 14001	
	This product complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed 3., as described in Laser Notice No. 56, dated May 8, 2019.	

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# PHYSICAL SPECIFICATIONS

Dimensions

32 (L) x 18 (W) x 20(H) cm

Device Weight



1.1kg

#### Mount Weight

#### Power Rating

48V DC / 56V PoE DC 60W 2.0A

## **Power Consumption**

20W POE 802.3at (Heater OFF) or 32W POE 802.3bt (Heater ON) or 48V DC

Pole Mount

Pole Diameter within 3 - 4 inches +/- 3° vertical adjustment

**Operating Temperature** 

-40 to 50° C (-40 to 122° F)

#### Weatherproofing

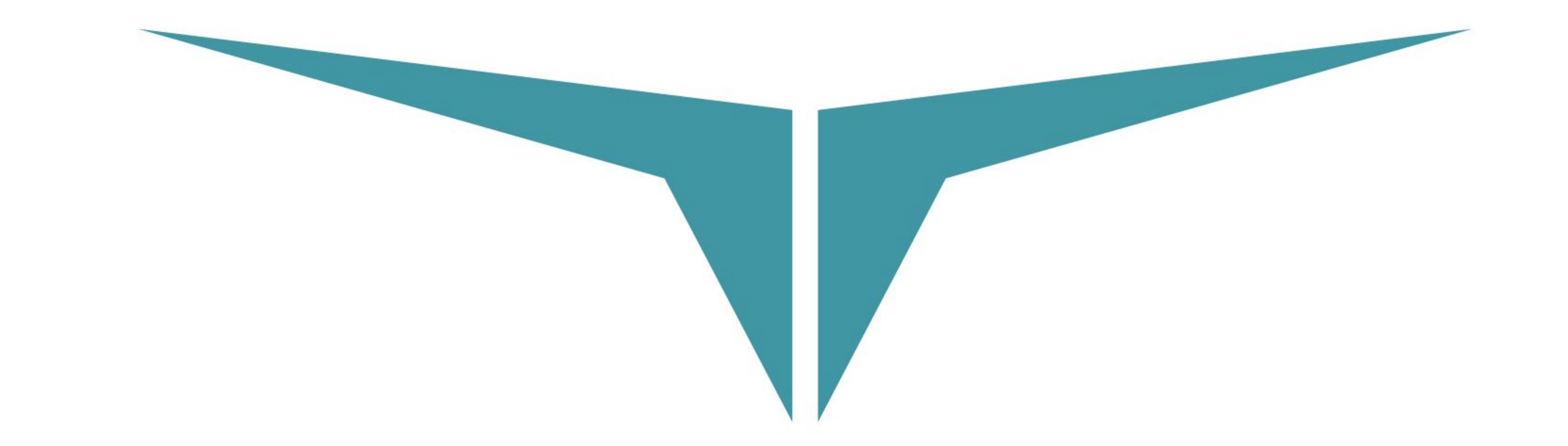




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