



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

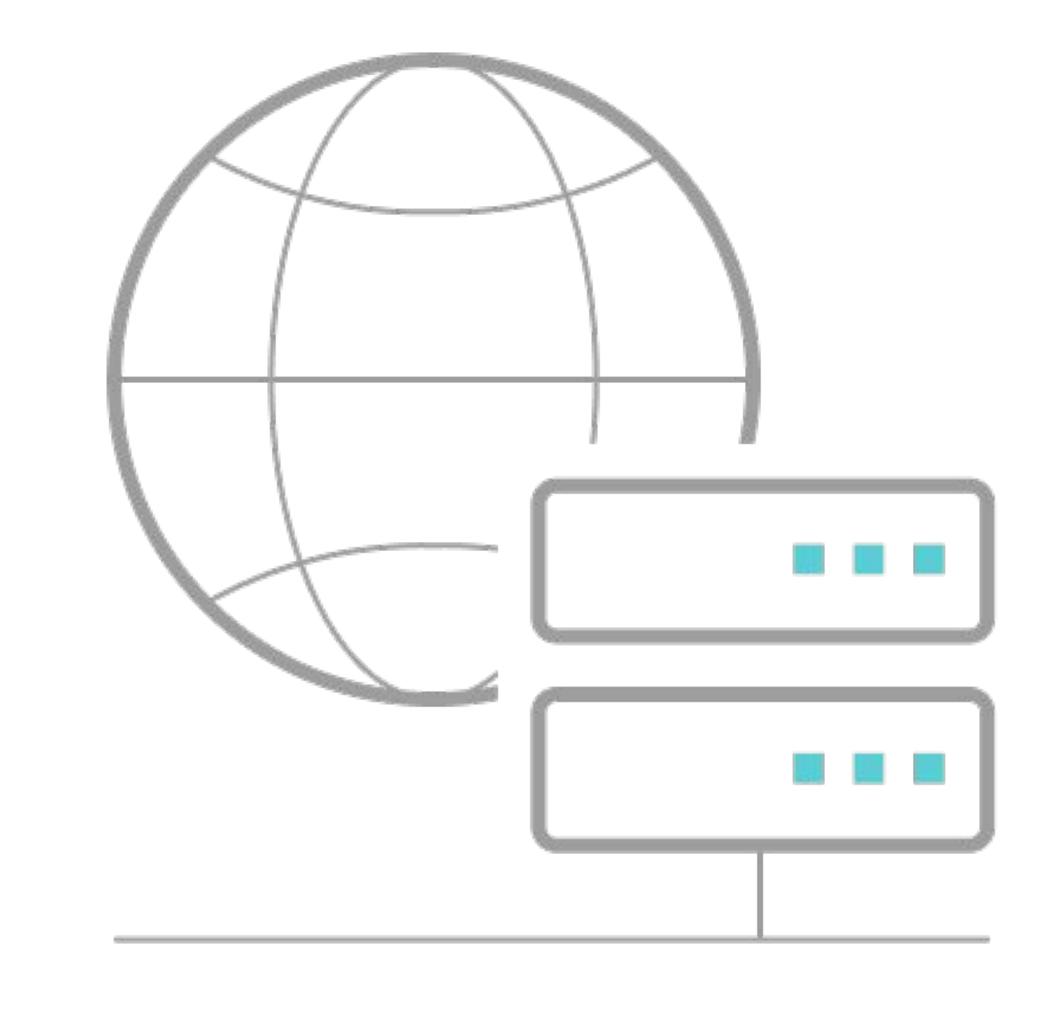
ZERO Spectrum Costs. ZERO Fibre Laying Costs. Opex Pricing Options.

INDUSTRIES AND USE CASES



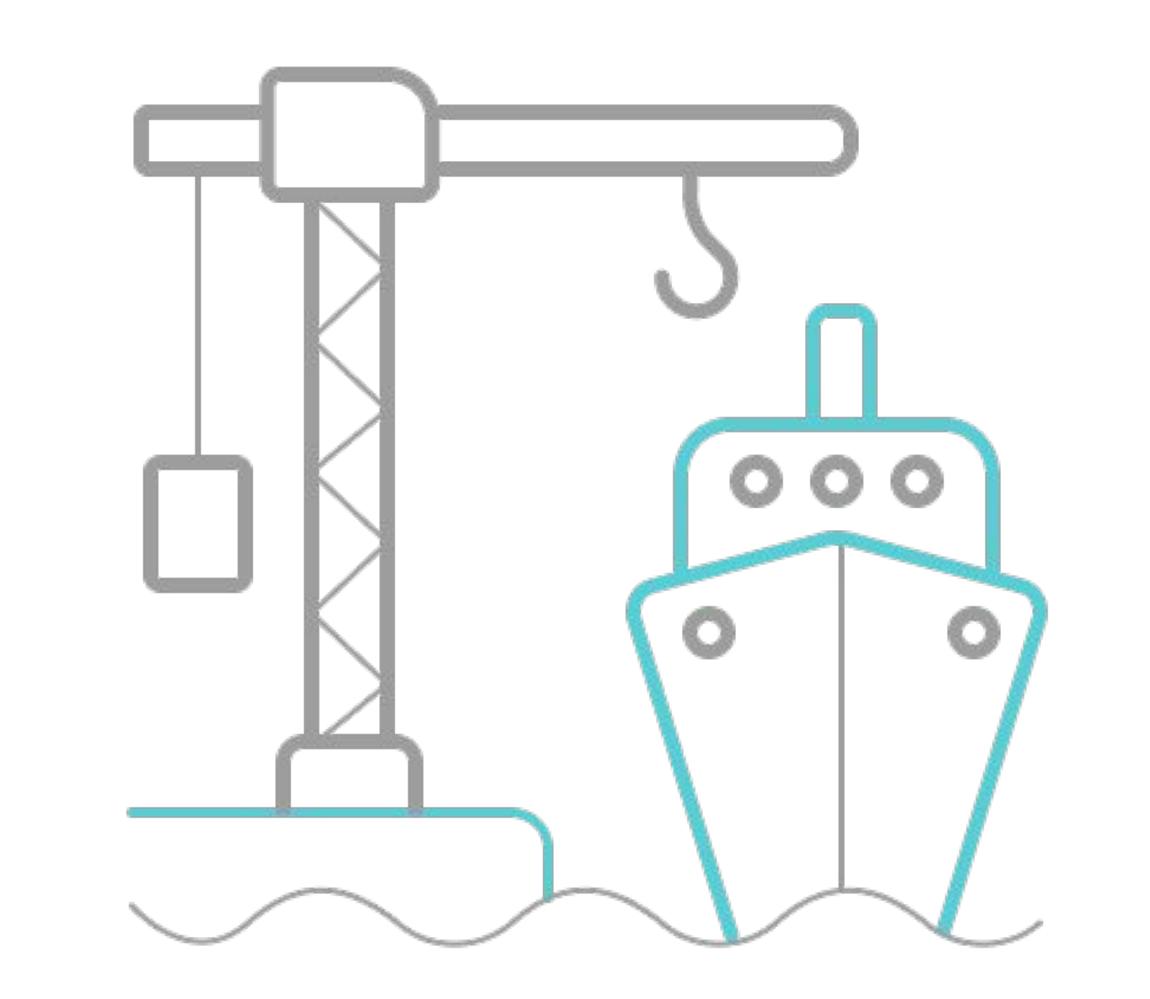
TELCO

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

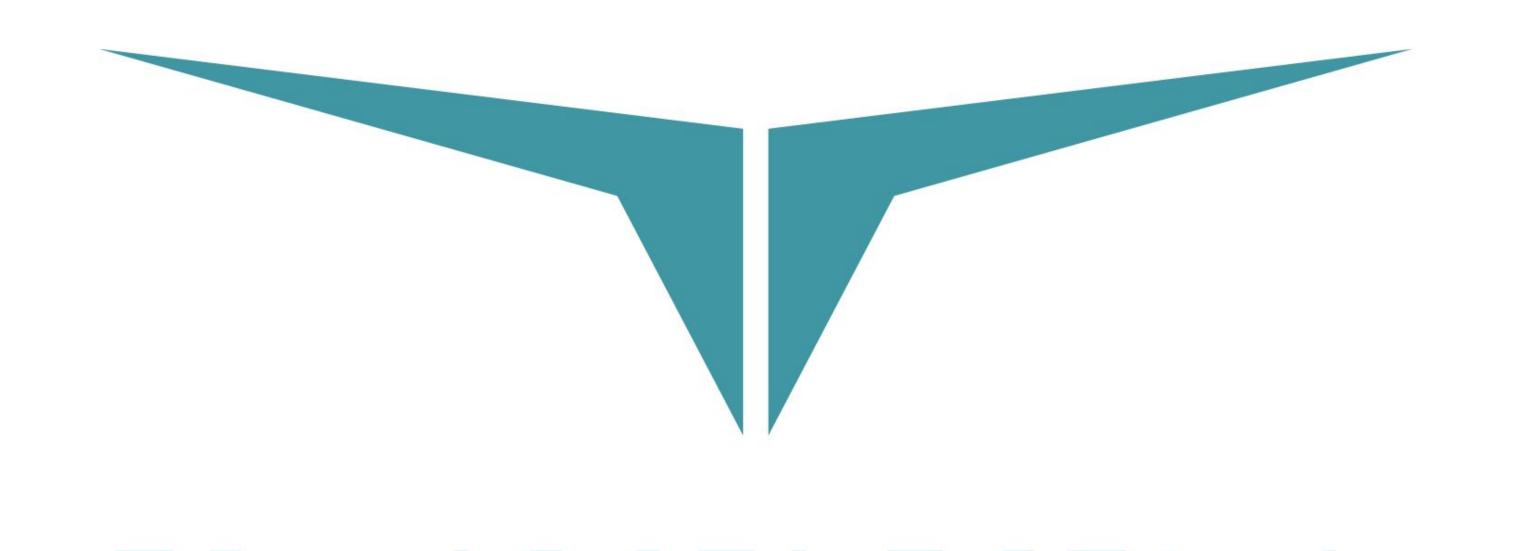
Fast and easy deployment for campus-wide connectivity. Expand network capacity to support high-volume data flows and support mission-critical applications in record time.

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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	CENTAURI 10G
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

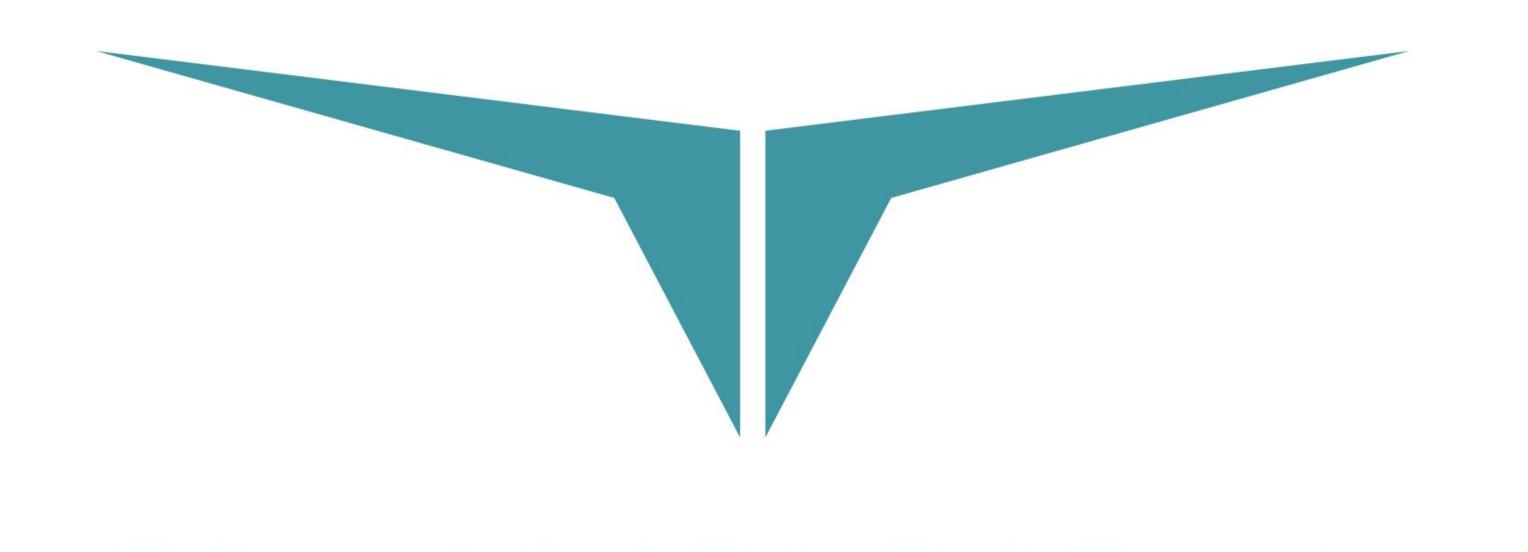
IEC 62368-1:2014+A11:2017

Laser Safety	Optical interface: Class 1/1M SFP/SFP+ IEC/EN 60825-1	
EMI/EMC Interference	FCC 15B, EN55011, EN 55032/35/24	
Quality Standards	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

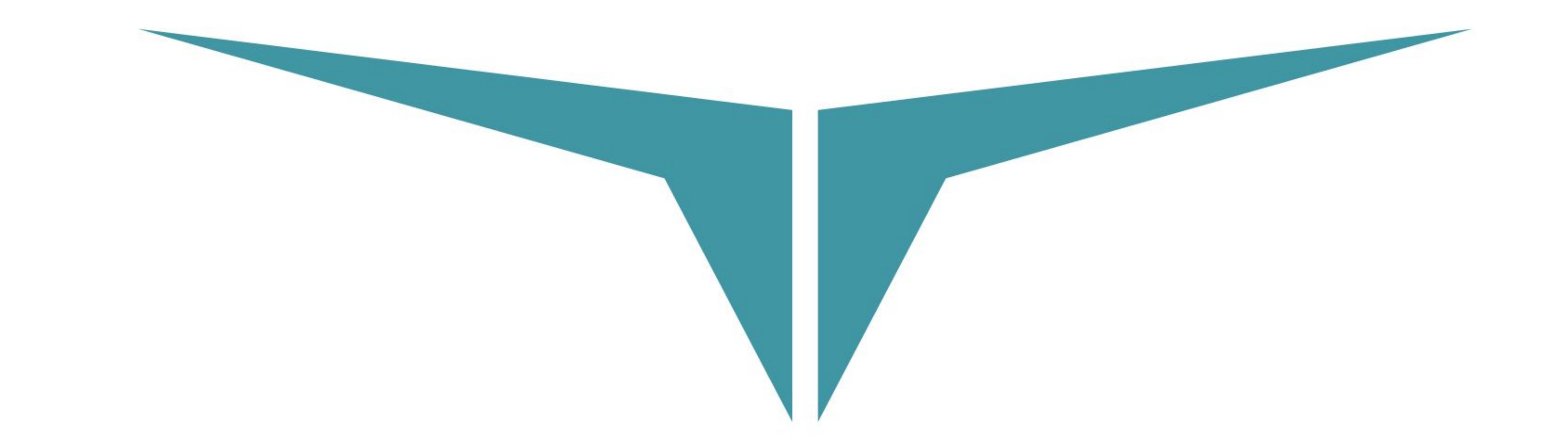




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