

TRANSCESTIAL



CENTAURI 25G

The world is about to go a whole lot faster



LEARN MORE

WORLD'S FIRST 25G WIRELESS LASER COMMS



Scalability

The only 25G commercially available wireless communications and scales with CENTAURI beyond 25G in the future.



Lowest TCO

Achieved through lower cost per bit than CENTAURI 10G, zero spectrum costs and faster deployment relative to fiber infrastructure.



Speed to market

No right of way challenges like fiber, no time-consuming civil works and rapid deployment in as little as half a day.

Use cases



Mobile operators

CENTAURI 25G will meet surging capacity needs for 5G microcells, fronthaul and backhaul.



ISPs

Bring higher bandwidth to a larger set of customers for your Broadband and Leased Line offerings. CENTAURI 25G also unlocks new sell-through potential for Fixed Telcos.



Data backup

Dramatically reduce wait times for backing up data by deploying a 25G High Bandwidth CENTAURI wirelessly.

Data sheet

Communication system

Model	CENTAURI 25G
Max throughput	25Gbps full duplex
Data interface	SFP28
Typical RTD at 2.5km	< 25 μ s
Wavelength	1550nm
Power control	Automatic
Automated pointing & tracking	Proprietary real-time laser stabilisation Range: horizontal: $\pm 2^\circ$, vertical: $\pm 2^\circ$
Management interface	100 BASE-T (RJ-45)
Network monitoring	Out of band 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	Class 3B Laser Product 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.

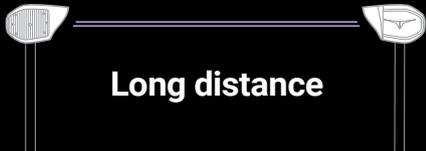
Physical specifications

Dimensions	32 (L) x 18 (W) x 20(H) cm
Device weight	2.7kg
Mount weight	1.1kg
Power supply	20W POE 802.3at (<i>heater off</i>) or 32W POE 802.3bt (<i>heater on</i>) 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	IP65 rated

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UP TO
GBPS

**High speed
connectivity**



Long distance



**Fast & easy
deployment**
4 hours to half a day



**Reliable
throughput**
In adverse conditions

CENTAURI



\$0

Spectrum free
No licensing fee or
spectrum costs



Highly secure
Jam proof

**WIRELESS LASER COMMS
Technology**

IP65

**Dust & rain
resistant**

2.7

KG

**Lightweight
& compact**



**Artificial
intelligence**
Tracking system



Future proof
200 Thz laser spectrum

**Laser safety
compliant**



**Rapid time
to market**
Faster than fiber cables