TRANSCELESTIAL

CENTAURI

FREE-SPACE OPTICAL COMMUNICATIONS

FASTEST TIME TO MARKET

No Right of Way needed and Rapid Deployment times

HIGHEST BANDWIDTH

Fibre Alternative or Microwave Replacement

LOWEST COST

ZERO Spectrum Costs and ZERO Fibre Laying Costs

USE CASES

TELECOM

Metro-Haul & Long-Haul for 4G & 5G, Leased Line Connectivity

FINANCIAL SERVICES

Low Latency Trading Leased Line or Dark Fibre alternative

ENTERPRISE

Private LTE backbone, CCTV, IoT, Data Center Connectivity, Low-Latency High-Bandwidth Teleoperation

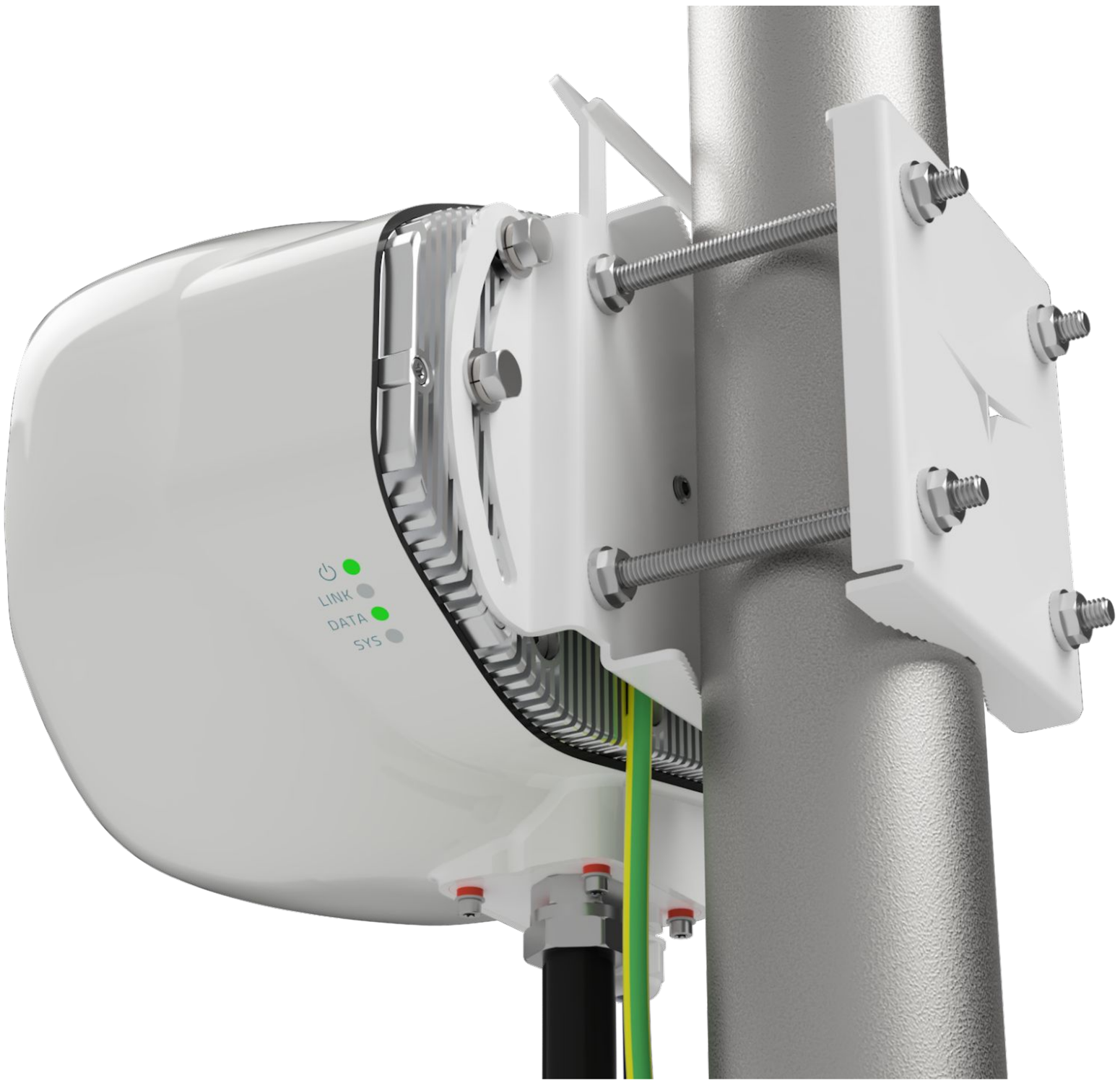
NATURAL RESOURCES PORTS & LOGISTICS

Site Connectivity for Oil & Gas, Container Crane Connectivity, Ship-to-Shore Connectivity

Email us: **sales@transcelestial.com**

transcelestial.com

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	
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	Outdoor (unaffected by sunlight, ambient light and low visibility haze)	
Communication Protocol	Layer 1 System: Supports 1G, 10G Ethernet, OTU, OBSAI, Fiber Channel, CPRI, STM, SONET, eCPRI	
Synchronisation	Pass-Through Bridge	

COMPLIANCE & SAFETY	
General Safety	IEC 62368-1:2014+A11:2017
Laser Safety	IEC/EN 60825-1 Compliant
EMI/EMC Interference	FCC 15B, EN55011, EN 55032/35/24
Quality Standards	ISO 9001, ISO 14001

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 (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	IP65 Rated