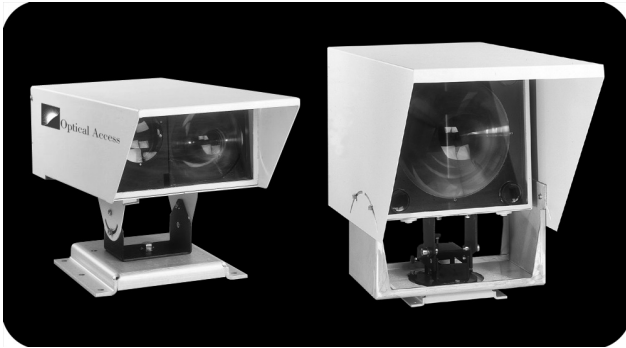


TERESCOPE 2



TereScope 2

The TereScope 2 system provides wireless IR connectivity for E1 and T1* based networks. In enterprises, it connects PABX to PABX and it is also used in cellular applications, connecting Base station to the network.

It, thus, saves the need for E1/T1 lines licenses, or applying for radio frequencies (for RF connectivity).

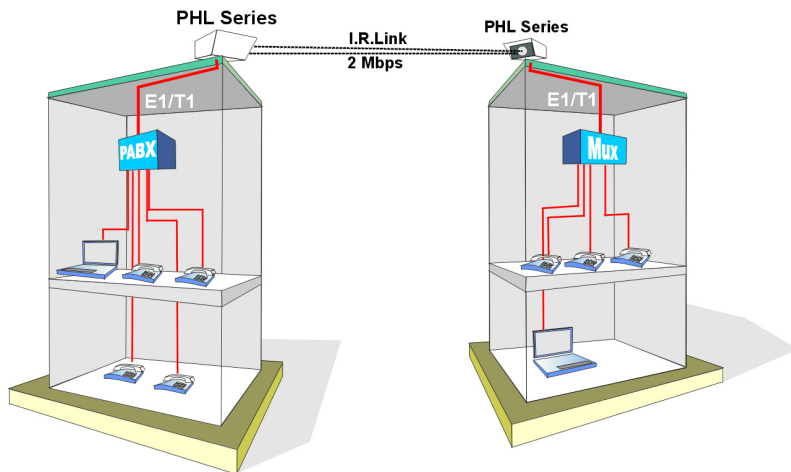
The TereScope 2 systems provide wireless data links of 2.048 Mbps, at ranges up to 5.5 Km. It enables immediate and easy connectivity with BNC or UTP interface, at full speed and with minimum delay.

The TereScope 2 is a reliable cost-effective solution, providing one pay off connectivity.

Optical Access offers this equipment based on LED for short distances (eye safety Class 1) and VCSELs (Laser - eye safety Class 1 M) for long range.

The TereScope 2, like all Optical Access products is manageable through MegaVision™, Optical Access' SNMP software.

* For T1 - please consult with us

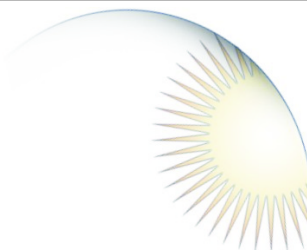


FEATURES

- Accommodates 1.5/2.048 Mbps networks, for E1/T1 connectivity for G-703 and G-704 protocols.
- Distances up to 5.5 Km
- Fast deployment
- License-free operation
- Visual and receive power measurement alignment functionality
- Remote management options
- Selectable output power levels
- Secure transmission
- Eyes safety Class 1 or 1M
- Portable
- Low cost
- BNC or UTP interfaces
- One year standard warranty

APPLICATIONS

- Last-mile for PABX or BTS connectivity
- Mesh networking
- Mobile Macrocell connection
- Temporary or permanent installation
- Rapid deployment
- Disaster recovery
- Cross Border Link



TereScope 2 - Specifications

Model	TS702/E1	TS707/E1	TS802/E1	TS807/E1	TS811/E1	TS940/E1	TS960/E1	
Code Number	TS2/A/E1	TS2/C2/E1/	TS2/B/E1/VS	TS2/C/E1/VS	TS2/D/E1/VS	TS2/E/E1/VS	TS2/F/E1/VS	
Application/ Data Protocol	Rate E1 - 2.048Mbps, G.703							
Performance	Range ⁽¹⁾ @3dB/km @5dB/km @10dB/km @17dB/Km @30dB/Km	1000m 900m 710m 570m 400m	2400m 2000m 1400m 1000m 700m	1200m 1050m 800m 600m 450m	1600m 1400m 1000m 750m 550m	2800m 2400m 1500m 1100m 780m	4200m 3200m 2100m 1500m 1000m	5500m 4100m 2600m 1850m 1200m
	Bit Error Rate	Less than 10 E-9 (unfaded)						
	MTBF	8 years						
Transmitter	Light Source	1 VCSELs	1 VCSELs	1 LED	3 LED	3 VCSELs	4 VCSELs	4 VCSELs
	Wavelength	850 nm						
	Output Power	0.8mW	9mW	1mW	3mW	16.5mW	22mW	26mW
	Beam divergence	5.5mrad	3.5mrad	2.8mrad	2.8mrad	1.8mrad	2.5mrad	1.8mrad
Receiver	Detector	Si PIN						
	Field of view	14 mrad				5 mrad		
	Sensitivity	-49dBm		-43dBm			-47dBm	
Interface	Type	Electrical						
	Connectors	RJ45		BNC or RJ45 (UTP)				
	Impedance	120Ohm		75 Ohm or 120 Ohm				
	Cable	Coax 75 Ohm or 120 Ohm						
	Cable loss	0 to 6dB						
Power Supply	Voltage Range	80 - 260AC @20 - 60VDC		Factory set: 230VAC @50Hz or 100-117VAC @60Hz or 24VDC (or 48VDC option)				
	Power Consumption	7W		22W				
Environmental Information	Operating Temp.	-50 °C to + 50 °C						
	Storage Temp	-50 °C to + 70 °C						
	Humidity	Less than 90% non-condensing						
	Housing	Weatherproof						
Mechanical Design	Dimensions (mm)	430x202x117		412x268x155		713x364x480		
	Weight	3.5Kg		4.5Kg		7Kg		
	Accessories			3.0kg		3Kg		
Diagnostics	Indicators	Airlink: Flag Local Loopback Electrical:Flag Remote Loopback						
	Selectors	Receive Signal Strength (Digital Display) Data Rate Alignment, Loopback (local) Air Tx Output Power (attenuation [dB])						
Management	Optional board	Using UDP (IP protocol) for transmission of allindications (See Indicators) Connector: RJ45, Compatible with Mega Vision						

- (1) @3dB/km = Light rain (5 -10mm/hr)
 @5dB/km =.Light to medium rain (15-20mm/hr)
 @10dB/km.=.Medium to Heavy rain (45mm/hr) - Light snow - Thin fog
 @17dB/Km.=.Cloudburst(100mm/hr) - Medium snow - Light snow
 @30dB/Km. = Rain (up to 180mm/hr) - blizzard - Moderate fog

TereScope 2 - Ordering Information

PRODUCT CODE	DESCRIPTION
TS2/A/E1/VS	TereScope702/E1, Optical Wireless, 400m E1 Link, G.703, visual alignment (RJ45).
TS2/B/E1/VS	TereScope802/E1, Optical Wireless, 500m E1 Link, G.703, visual alignment (BNC and RJ45). Power supply V1, V2, V3, V5
TS2/C2/E1/VS	TereScope707/E1, Optical Wireless, 700m E1 Link, G.703, visual alignment (RJ45).
TS2/C/E1/VS	TereScope707/E1, Optical Wireless, 750m E1 Link, G.703, visual alignment (BNC and RJ45). Power supply V1, V2, V3, V5
TS2/D/E1/VS	TereScope811/E1, Optical Wireless, 2000m E1 Link, G.703, visual alignment (BNC and RJ45). Power supply V1, V2, V3, V5
TS2/E/E1/VS	TereScope940/E1, Optical Wireless, 3500m E1 Link, G.703, visual alignment (BNC and RJ45). Power supply V1, V2, V3, V4
TS2/F/E1/VS	TereScope960/E1, Optical Wireless Link for 5000m, E1 G.703 , visual alignment (BNC and RJ45). Power supply V1, V2, V3, V4

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