

TERESCOPE 155



TereScope 155

The TereScope™ systems provide direct, fiber-speed service to solve the data flow bottleneck often found in the last-mile. They are reliable, cost-effective and easy to deploy for networking and as backbone.

The TereScope 155Mbps systems provide high-speed wireless connectivity for the metro area. Offering data rates ranging from 34 to 155 Mbps, at up to 2.75 Km, these systems avoid the need for costly and time-consuming fiber runs in developed areas. Easy to install and align, these systems can be deployed quickly to expand your network as needed.

The TereScope 155 series uses multiple transmit aperture technology (3 and 4 Lasers) to ensure high performance in adverse conditions. The receiver of the TS4400 is very large (10' diameter) to overcome scintillation problems in hot or cold weather.

The TereScope 155, like all Optical Access products is fully managed by MegaVision™, Optical Access' SNMP. software.

Note: The factory preset is for E3/T3, 100 and 155 Mbps. If another speed is required, within 34-155Mbps, please advise to allow for necessary adjustments.

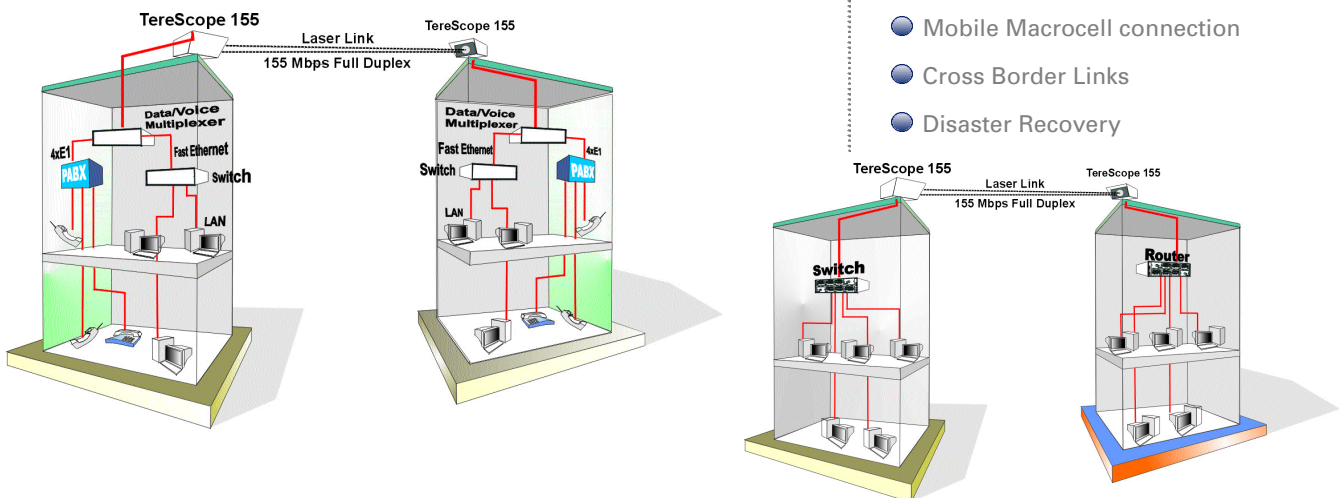


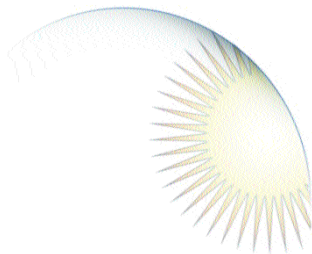
FEATURES

- Accommodates 34 to 155 Mbps networks, for protocols such as E3/T3, Fast Ethernet, FDDI, OC-3, ATM and STM-1
- Distances up to 2.75 km
- Fast deployment
- Supports multiple protocols
- License-free operation
- Visual and receive power measurement alignment functionality
- Remote management options
- Selectable output power levels
- Upgradable
- Portable
- Secure transmission
- Eyes safety Class 1 or 1M

APPLICATIONS

- Last-mile connectivity
- Mesh networking
- LAN/MAN environments
- Temporary or permanent installation
- Mobile Macrocell connection
- Cross Border Links
- Disaster Recovery





TereScope 155 - Specifications

Model	TS3101	TS3103	TS3303	TS4400	
Code Number	TS155/B/DSC/VS	TS155/C/DSC/VS	TS155/D/DSC/VS	TS155/E/DSC/VS	
Application/ Data Protocol	4E1(OA Mux) ,E3, Fast-Ethernet, FDDI, ATM-1, T3(optional)				
Performance	Rate 34, 100, 125, 155 Mbps				
	Range ⁽¹⁾ @3dB/km	520m	770m	1850m	2750m
	@5dB/km	450m	700m	1520m	2200m
	@10dB/km	390m	570m	1100m	1500m
	@17dB/Km	340m	460m	840m	1100m
@30dB/Km	250m	340m	590m	770m	
Bit Error Rate	Less than 10 E-12 (unfaded)				
MTBF	8 years				
Transmitter	Light Source	1 LED	3 LED	3 VCSELs	4 VCSELs
	Wavelength	850 nm			
	Output Power	1.1mW	3.3mW	16.5mW	21mW
	Beam divergence	2.8mrad	2.8mrad	1.8mrad	2.2mrad
Receiver	Detector	Si PIN			
	Field of view	14mrad			5mrad
	Sensitivity	-34dBm			
Interface	Type	Fiber Optic Transceiver - Multimode (Singlemode available as an option)			
	Connectors	SC			
	Wavelength	1300nm			
	Output power	-17±3dBm			
	Receiver operating range	-14 To -30dBm			
	Voltage Range	Factory set: 230VAC @50Hz or 100-117VAC @60Hz or 24VDC (or 48VDC option)			
Power Supply	Power Consumption 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)	412x268x155		713x364x480	
	Weight	Unit	4.5Kg		7Kg
	Accessories	3.0kg		3Kg	
Diagnostics	Indicators	Airlink: Flag, Sync., Fiber Optic: Flag, Sync.			
	Selectors	Alignment Loopback 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 all indications (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 155 - Ordering Information

PRODUCT CODE	DESCRIPTION
TS155/B/DSC/VS	TereScope3101, Optical Wireless, 200m, Selectable Protocol Link 34-155Mbit/s, visual alignment (MM1310nm, DSC); V1, V2, V3, V5
TS155/C/DSC/VS	TereScope3103, Optical Wireless, 350m, Selectable Protocol Link 34-155Mbit/s, visual alignment (MM1310nm, DSC); V1, V2, V3, V5
TS155/D/DSC/VS	TereScope3303, Optical Wireless, 1000m, Selectable Protocol Link 34-155Mbit/s, visual alignment (MM1310nm, DSC); V1, V2, V3, V5
TS155/E/DSC/VS	TereScope4400, Optical Wireless, 2500m, Selectable Protocol Link 34-155Mbit/s, visual alignment (MM1310nm, DSC); V1, V2, V3, V4

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