

WIRELESS OPTICAL BROADBAND BY ACTIPOLE



Specifically designed for all types of short point to point applications, the *Streetlight300* is the most reliable and robust solution on the market.

The *Streetlight300* is the perfect solution for all fixed Enterprise Solutions.

StreetLight 300 Series

Product	Distance	Features	Markets
Streetlight	300 m	+	Enterprise

The *Streetlight30* has been designed and recommended for distances up to 300 m.

The *Streetlight30* offers a low cost fixed solution for installations outdoors and indoors. Interface to network is via multimode fiber, a media converter is required if Cat 5 UTP is used.

The *Streetlight30* is supplied with the ALM software which allows for a complete supervision of the link.

Logical Software  
VISISIM<sup>®</sup>



VISISIM<sup>®</sup> & ALM<sup>®</sup>  
100% available

Features :

- License Free
- Operation within the visible spectrum (690 nm)
- Compliant with the EN NF 60825 norm
- Maximum Security Standard: Laser class 2
- SC Optical Interface
- Link Path Calculator through VISISIM<sup>®</sup> software
- Dynamic System: 20 dB
- Supplied with standard ALM software

Advantages: 200 Mbps

- Total Availability (GTD) 100 %
- Return on Investment < 6 months
- Real 200 Mbps throughput : voice, image, data
- Reliable: protection against bad weather
- Fast Maintenance through simple replacement of the optical head

# Technical characteristics (*Streetlight300* series)

## TRANSMITTER

Laser diode  
Wavelength: 690 nm  
Average optical output power: 10 dBm  
Output diameter beam: 25 mm  
Beam divergence: 4 mRad  
Optimal diameter beam automatically adjusted through PC monitoring

## RECEIVER

PIN Photodiode  
Effective receiver surface: 20 cm<sup>2</sup>  
Receiver field of operation: 8mRad  
Sensitivity: -38dBm  
Electronic dynamic: 25 dB  
Optomechanical dynamic: 10 dB

## TRANSMISSION

Type of modulation: Digital encoding  
Protocol transparent to user data  
Bandwidth: from 1 to 200 Mbps  
Application: all digital binary signals between 1 and 155 Mbps: E1/T1 to E3/T3, ATM 25, 50 & 155, FDDI, Ethernet 10/100Mbps, Token Ring, ... )

## FIBER OPTICS INTERFACE

Multimode fiber (62.5/125 or 50/125)  
Connectors: SC  
Wavelength: 1300 nm  
Input optical sensitivity: -30 dBm  
Average output optical power : -16 dBm

## POWER SUPPLY

External technical kit provided  
Input: 110/220 VAC  
Output: 12VDC  
Power: 50 W max

## CONDITIONS OF OPERATION

Temperature: - 20° C to + 50° C  
Built for external uses, water and weather resistant, IP 66 Nema 4X  
Recommended maximum distance: 300 m

## PHYSICAL CHARACTERISTICS

Overall dimensions: 436 x 105 x 256 mm  
Construction: aluminum  
Weight: 5 Kg

## MONITORING and REMOTE CONTROL

External interface: RS 232 to PC  
Network Management software: ALCOM LINKS MANAGEMENT (ALM) – multi link  
Notification of optical levels and necessary signal amplitude, measurement of optical signals, laser power consumption, etc...

## SECURITY OF LASER DEVICES

The *Streetlight30* transmitter is compliant with CLASS 2 AFNOR NF EN 60825-1 standards

## ITA-SYSTEMS AUSTRALIA

Tel: +61-3-9432-6336 Fax: +61-3-9432-6606  
Email : [info@ita-systems.com](mailto:info@ita-systems.com)  
Web : [www.ita-systems.com](http://www.ita-systems.com)