

# LAMBDA λ

## Service description

The LAMBDA λ is a point-to-point DWDM service, which can replace the Dark Fiber service and eliminate the need of repeaters between the service end-points.

Service	Description
Lambda λ	Capable of transmission of any type of upper layer protocols (for example Ethernet, SDH, etc.)

### Features

- Predictable QoS
- Nx1 lambdas
- 1/10/100 Gbps capacities
- Standardized
- Reliable

### Sample applications

- Line services (Point-to-Point)
  - Ethernet
  - SDH

### Synonymous service names

- Transponder

### RFI/RFP input details

- SERVICE speed
- Interface type
- UNI location (city, street, etc.)
- Contact person (name, mobile phone, E-mail)

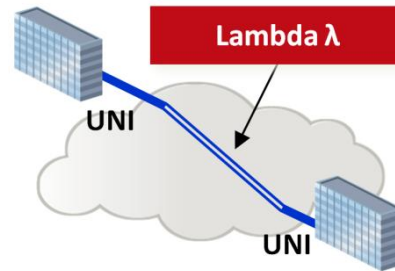
### Service Provisioning process

- Inquiry > Quotation > Order > Provisioning

### To place an order/request for information, please contact

- Phone +359 (2) 490 3211
- E-mail [sales@telehouse.bg](mailto:sales@telehouse.bg)
- Internet [www.telehouse.bg](http://www.telehouse.bg)
- Address Ovche Pole 122 str., fl.2, Sofia 1303, BULGARIA

### SERVICE DIAGRAM



### Service elements

- SERVICE: duration
- Lambda: quantity, speed
- Physical locations of end-points

### TECHNICAL DESCRIPTION

ISO OSI – Layer-1  
Mode – SM

#### Network Quality Parameters

Parameter	Details	Value
Backbone availability	Per year	99.999 %
Network type	Ring	Dual
Latency	Per 150 km	2 ms
Jitter	Per 150 km	2 ms
Frame loss	-	0 %

#### Supported rates

- Ethernet: 1/10/100 Gbps
- SDH: STM-16/STM-64/STM-256

#### Acceptable wavelengths

- 1310 nm
- 1550 nm

#### Service Demarcation Point

- UNI (ODF)
- DWDM transponder port

#### Optical UNI interfaces

- LC/PC

#### Details

- Provisioning (RFS date) within 30 days (meantime, ask for exact)

### SERVICE PROVIDER BACKBONE DETAILS

- Ultra-fast (<10ms) protection switch
- ROADM carrier-grade devices
- Dual-ring protection
- Head-end located in the cutting-edge colocation center [www.TelePoint.bg](http://www.TelePoint.bg)
- PoPs located in specialized Telco colocation facilities

### GENERIC SLA

24x7 Helpdesk available with TT system  
Service availability 99.5%/yearly  
Service outage MTTR

- Equipment failure
  - Business hours: <2h
  - Non-business hours: <4h
- Cable failures
  - Business hours: <6h
  - Non-business hours: <12h
  - Stolen cabling and natural disasters: <2 days

### DICTIONARY

CPE – Customer Premises Equipment  
DF – Dark Fiber  
DWDM – Dense Wavelength Division Multiplexing  
EPL – Ethernet Private Line  
IRU – Irrevocable Right of Use  
ISO – International Standardization Organization  
MRC – Monthly Recurring Charge  
MTTR – Mean Time to Recover  
NNI – Network to Network Interface  
NRC – Non Recurring Charge  
ODF – Optical Distribution Frame  
OSI – Open System Interconnect 7 layer model  
PoP – Point of Presence  
QoS – Quality of Service  
RFS – Ready for Service  
SDH – Synchronous Digital Hierarchy  
SLA – Service Level Agreement  
SM – Single Mode  
TT – Trouble Ticket  
UNI – User Network Interface  
WDM – Wavelength Division Multiplexing