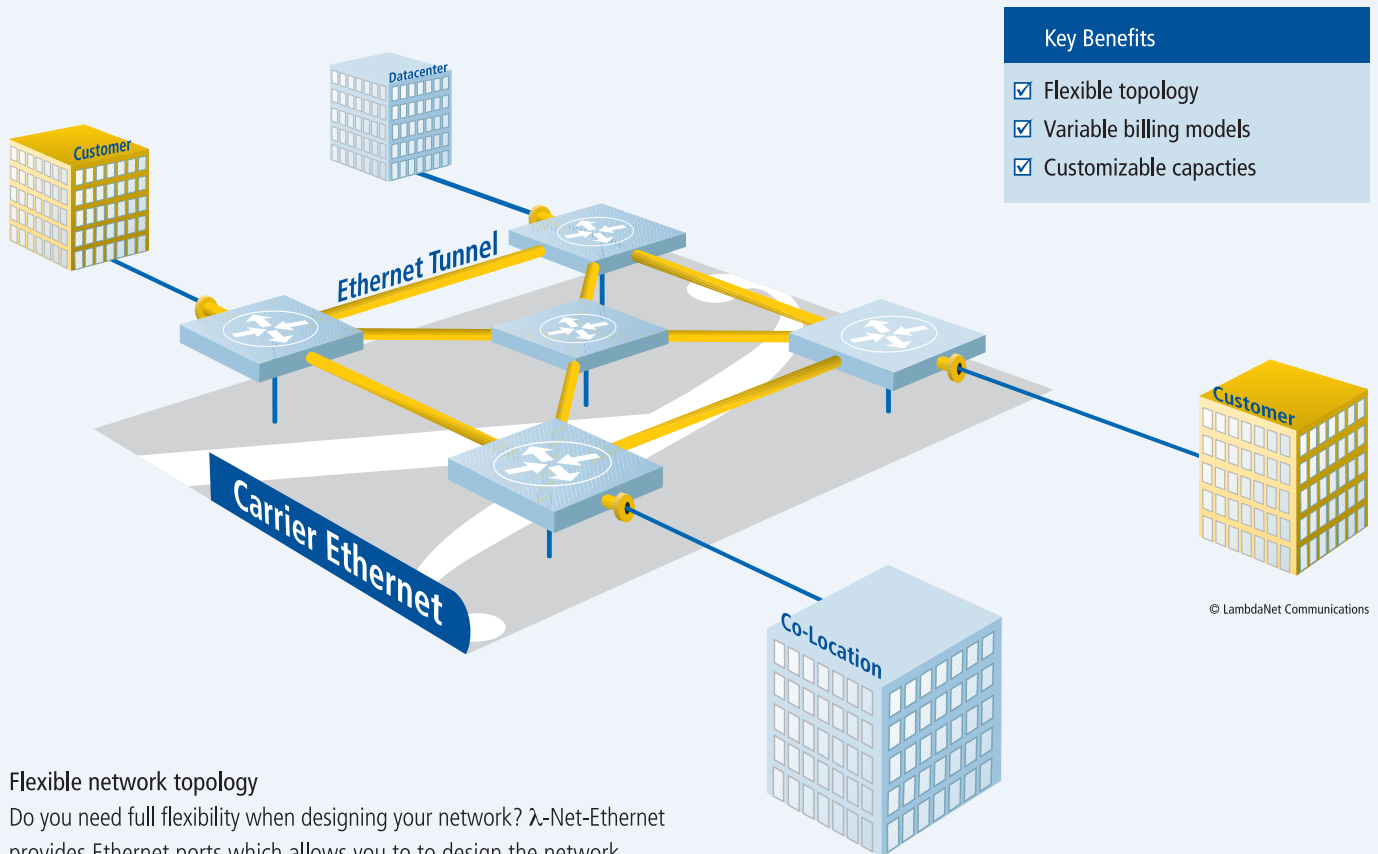


# λ-NET-ETHERNET



**Key Benefits**

- Flexible topology
- Variable billing models
- Customizable capacities

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## Flexible network topology

Do you need full flexibility when designing your network? λ-Net-Ethernet provides Ethernet ports which allows you to design the network topology exactly according to your requirements by assigning your VLANs. You can thus define simple point-to-point / multipoint connections or any-to-any communication.

## Customizable Ethernet capacities

λ-Net-Ethernet offers Ethernet connections with data rates from 2 Mbps to 10 Gigabit Ethernet, allowing you to efficiently connect both small branch offices and large data centers.

## Variable billing models

In addition to the proven usage-based tariffs such as Burstable and Average Bandwidth, λ-Net-Ethernet offers an even more flexible type of billing. On request, LambdaNet provides a total usage commitment for all connections. You need even more degrees of freedom? Then you should simply order a certain number of Ethernet ports in one of our LambdaNet data centers or connected tele-houses. During the contractual period, these ports can be moved as required – only the total number should remain constant.

## Permanent network monitoring

Highly qualified staff provides permanent proactive monitoring of your services. Our competent helpdesk staff is available 24 x 7 for any questions you may have concerning your service.

## High-performance Carrier Ethernet network

λ-Net-Ethernet is implemented using LambdaNet's high performance Carrier Ethernet network which is based on OSI Layer2 switches. Carrier Ethernet technology is largely defined by the Metro Ethernet Forum (MEF). The key benefits of this technology are standardized services, scalability, reliability/quality of service (QoS) and service management. The following service types are defined according to MEF: E-LINE (point-to-point) and E-LAN (any-to-any).

## Turn-key project management

No matter whether you want to create a network with only some locations or a complete network including locations in several countries - LambdaNet assumes full project management responsibility by implementing turn-key solutions.

## Optional traffic classes

You have the option to implement Class of Service (CoS) on your Ethernet ports. Layer2 switches are able to individually treat different traffic streams according to various priority features. Priority information from the IP layer (802.1p) can also be used here.

## λ-Net-Ethernet Overview

Basic services	<ul style="list-style-type: none"> <li>➔ Transmission on LambdaNet's Carrier Ethernet network</li> <li>➔ Maximum flexibility in network topology (E-LINE, E-LAN)</li> </ul>
Access bandwidth	<ul style="list-style-type: none"> <li>➔ Ethernet (2, 4, ..., 10 Mbps)</li> <li>➔ Fast Ethernet (10, 20, ..., 100 Mbps)</li> <li>➔ Gigabit Ethernet (100, 200, ..., 1,000 Mbps)</li> <li>➔ 10 Gigabit Ethernet (1,000, 2,000, ..., 10,000 Mbps)</li> </ul>
Network protocols	<ul style="list-style-type: none"> <li>➔ Ethernet according to IEEE 802.1x</li> <li>➔ All customer ports VLAN-transparent according to 802.1ad</li> </ul>
Billing options	<ul style="list-style-type: none"> <li>➔ Flat Rate</li> <li>➔ Average bandwidth or Burstable (95%)</li> <li>➔ Total-usage commitment over all ports</li> <li>➔ Change options for all locations integrated into the LambdaNet fibre network *)</li> </ul>
Service level	<ul style="list-style-type: none"> <li>➔ Service availability up to 99.95 % fibre network</li> <li>➔ Service restoration time starting from 4 hours</li> <li>➔ Packet loss rate &lt; 0,1 %</li> <li>➔ Credits in case contracted service levels have not been meet</li> </ul>
Customer service	<ul style="list-style-type: none"> <li>➔ Our 24 x 7 Network Management Center (NMC) in Hanover, Germany, provides pro-active monitoring and management</li> <li>➔ Web-based Customer Support Portal provides service reports and statistics</li> </ul>
Options	<ul style="list-style-type: none"> <li>➔ Class of Service (CoS)</li> </ul>

\*) Current list see [www.lambdanet.net](http://www.lambdanet.net)