

IT House Katrinebjerg Offers Tenants 10 Gb/s Networking

**SYSTIMAX® GigaSPEED® X10D and LazrSPEED® Solutions
at IT House let dynamic companies operate at higher speed**



The new, 10,000 sq meters IT House in Århus, Denmark, ensures all its tenants are well connected via a connectivity infrastructure that supports 10G Ethernet. The five-floor building has more than 3,500 information outlets with a 10 Gb/s option in a state-of the art office environment designed to suit innovative, fast growing businesses.

The various IT companies in the IT House share the same facilities like cabling, network and server rooms and take advantage of the synergy between the tenants. At the same time the network is completely secure and separated for each tenant.

The structured cabling installation plays a key part in making open plan work areas flexible enough to handle rapidly growing and changing requirements.

"The enterprises we serve often rely heavily on high-speed connections for the success of their business," said Hans Møller, Director for the IT House. "Having a flexible, expandable cabling infrastructure throughout the building allows us to meet all their needs and is important in attracting new tenants. We can promise them that they will have the best available connectivity with all the performance necessary to support the most demanding applications – both now and far into the future."

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When new companies move into the building, they are provided with their own private and secure virtual LAN (VLAN), connected via three network distribution frames to the common server room. This room houses several 100 servers and is configured with a high level of redundancy to maintain service after equipment failures.

Connections from distribution frames to the server room use SYSTIMAX LazrSPEED® multimode fiber connections supporting data transmission speeds of 10 Gb/s. The LazrSPEED Solution can deliver this 10G performance over distances of up to 550 meters. Its multimode design is laser optimized to achieve high throughput without need for expensive singlemode electronics, helping to reduce overall network costs.

The complete cabling installation was carried out by SYSTIMAX Prestige BusinessPartner, TOPNORDIC. TOPNORDIC, which has offices across Denmark and the rest of Scandinavia, initially proposed a 1Gb/s SYSTIMAX GigaSPEED® XL Solution. However, it also let Hans Møller know that the new 10 Gb/s GigaSPEED X10D Solution was available.

The GigaSPEED X10D Solution conforms to the latest TIA Category 6A and ISO Class E_a cabling channel requirements and is compliant with the IEEE 10GBASE-T requirements. It comfortably supports 10G Ethernet over a full 100-meter, four-connector channel. Based on this performance potential, Hans Møller decided to upgrade his choice of cabling.

“VoIP, video conferencing and collaborative applications are already testing the limits of 1G network infrastructure,” he said. “And our tenants are the kind of companies that need the best available communications to develop advanced systems and get them successfully to market.”

As well as serving tenants, the cabling infrastructure also has the capacity to serve the buildings own systems. These include heating, ventilation and access control. By using the same network for building automation, data, voice and video, the IT House saved money and materials. Going forward, it will also reduce network-running costs.

The cabling infrastructure is configured around three communications rooms, each serving one section of the building, linking them together with a redundant star and ring topology of LazrSPEED fiber cables.

To install the cabling, TOPNORDIC deployed a team of ten on site. As well as routing the cable through overhead trays above the ceilings, the team also installed approximately 900.000 feet of GigaSPEED X10D cable and SYSTIMAX 1100 series patching hardware in the communications rooms.

Commenting on the project, Nordic Regional Technical Manager, Arne Keller of SYSTIMAX® Solutions in Scandinavia said: “The IT House shows how high performance cabling can add a great deal of value to a building. It provides the high performance connectivity that is at the heart of modern business and attracts tenants by giving them an advantage over their competition.”

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