

EC SYSTEM Free space optics 10 Gbps



Sector: IT sector – Data centre company in Mexico City

Environmental conditions:

Mexico City is a big industrial city with 15 million residents. The city is located between the mountains and there is a lot of smog and dust produced by industrial plants. This area has dry winter months; the rains come during summer months and usually last for a few hours.

Installation conditions:

There is a high seismic activity in Mexico with frequent earthquakes which cause shaking of the buildings and mast.

In the Mexico City there is a high noise pollution in densely populated area with big WIFI interference with other data radio networks risk, there is a lot of historical monuments underground and it is very hard to obtain the permission for grounding of cables from a local municipality. Due to these reasons it is sometimes almost impossible to deploy the optical cable in the ground at all or at least cost effectively. The use of MW radio technology is also not recommendable. At the same time, the Data Centre Company has demand for great data transmission capacity with high security. The connection must be high capacity, reliable and without the risk of interception.

Reason for deployment of EC SYSTEM free space optics:

- 10 Gbps Full Duplex capacity with high reliability and without risk of interception
- High security of data transfer
- Fast and easy deployment
- No license and municipal regulation
- Reliability of connection in noise dense polluted area with high radio interference and earthquake risks

Link EL-10GL with capacity of 10 Gbps and distance range up to 3000 m has been deployed by a local installation company.