

EC SYSTEM INTERNATIONAL a.s.

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Success story about deployment of EC SYSTEM cable-free optical technology (FSO) in Ebene Cyber city, Mauritius.



Ebene, sometimes called the Cyber city, is a suburb, located south of the capital Port Louis. Since its Construction it was promoted as a new information technology centre for Mauritius and a link between African and Asian markets. It is the area of modern skyscrapers and modern offices. Fast Development of this urban area with more than 20 000 employees has required construction of reliable high-speed connectivity, allowing uninterrupted connection with the rest of the world.

Our partner Atlas Communication Company, leading service provider in communication for private companies and Government in Mauritius, was looking for a solution that offers reliable and high-capacity connection to their customers and at the same time is quickly and easily deployable.

EC SYSTEM cable-free optical technology (FSO) provides high-reliability optical wireless connectivity with throughput up to 10 Gigabit/s Full Duplex.

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As the deployment of the optical fibre is time-consuming and requires obtaining land owner's and municipal permissions, whereas EC SYSTEM FSO technology can be deployed quickly and no requires municipal permissions.

Atlas Communication has taken the decision to use EC SYSTEM Free Space Optics equipment to establish optical wireless Point-to-Point network in the area. Atlas Communication is using EL-1GL with throughput of 1 Gigabit/s in Full Duplex between two office buildings in Ebene Cyber City with distance of 1000m.

Key Features

- Basic interfaces 10/100/1000 BASE-TX
- SFP:1000 BASE-SX
- Throughput RJ-45: 10/100/1000 Mbit/s
- SFP: 1000 Mbit/s
- Wavelength, nm 1550
- Bandwidth, Mbit/s 1250 Full duplex
- Latency of optical channel, ms < 0,125
- Alignment: Real-time Auto tracking system
- Operating temperature of the outdoor units, °C -40 ...+50
- Management, monitoring UDP (firmware) SNMP traps
- Real-time AGC (Automatic Gain Control)
- Data transport networks - Gigabit Ethernet, ATM, FDDI, Fast Ethernet, Etherne

Benefits of using EC SYSTEM Free Space Optics:

- High optical wireless capacity
- Rapid & Easy deployment
- Reliable connection
- Competitive advantage
- Secure communication
- Possible fast and simple re-deployment