

IFOTEC, as a specialist of fiber optic transmission which already supplies active access equipment for optical fiber networks up to the subscriber, to serve both companies (FTTO) and individuals (FTTH), has developed a solution of centralized technical management over optical fiber, GTCFibre, to manage remote devices through an Ethernet network.

GTCFibre is equipped with advanced features to characterize:

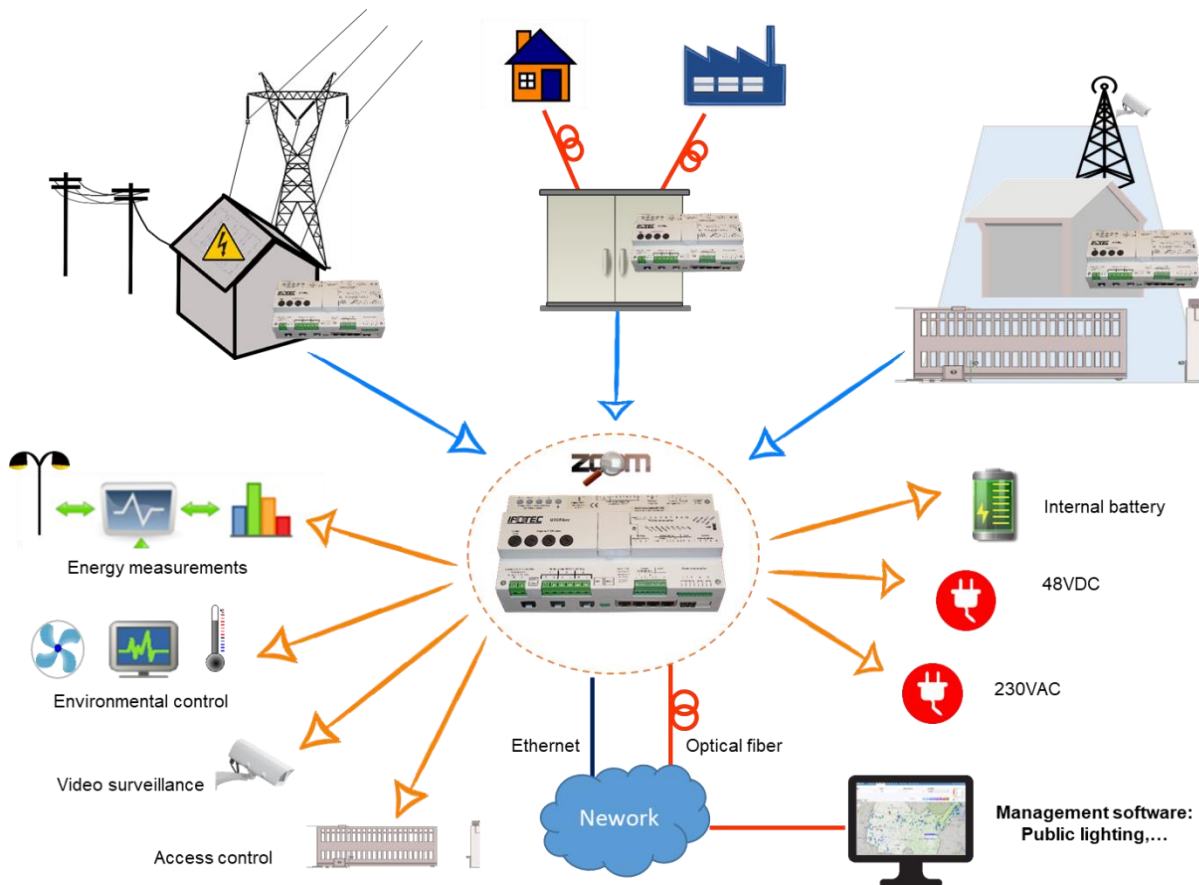
- The technical environment of the network nodes through its numerous interfaces (analogue and contact closure inputs/outputs, serial links and Ethernet, ...)
- The climatic environment using temperature and humidity probes and the possibility of connecting other sensors (smoke, ...)
- The security environment by the capability to connect surveillance cameras or other intrusion detection means,
- The energy consumption, both by remote meter reading, and and by measuring the local power supply characteristics.

Each GTCFibre module is also a control instrument:

- To optimize the energy consumption by the capability to program locally or control remotely heating or cooling in relation with temperature and humidity local measurements.
- To manage access control

The GTCFibre solution for remote management of telecom network nodes, can be used for other applications such as public lighting management, city management (traffic, video surveillance, information panels, ...) and centralized technical management of the premises.

Examples of centralized technical management for different network nodes



GTCFibre is primarily designed for the centralized management of cabinets or control rooms (shelters, ...) scattered throughout an area.

Seen from the network, the GTCFibre module is a neutral element that, through an optical fiber or copper Ethernet link, or even a radio link, makes it possible to remotely manage the entire technical environment of a network node. Materially, it is designed to be fitted directly into the electrical panel (width 12 units) or to be fixed onto a DIN rail.

The equipment is powered by both the mains and the 48VDC network, that it monitors at the same time: voltage, current, active and reactive powers, harmonics for mains and batteries plus charging voltages for the 48VDC. In addition, in the event of a complete power failure, the product is equipped with an internal battery to maintain the central unit operation and network access ten minutes in order to put the site in safely position and send a precise diagnosis through the network.

GTCFibre module is featuring many inputs-outputs for command control:

- Opto-isolated on-off inputs and outputs
- Analog Inputs and outputs
- RS232/RS422/RS485 serial ports
- Ethernet ports, ...

In addition, it allows to remotely control the supply of three independent power applications on the mains. power supply.

In order to optimize the energy consumption of the site, GTCFibre module is supplied with two probes for temperature (in two points), as well as humidity measurements: a configurable automatic program can directly control heating / ventilation / cooling equipment via the appropriate inputs and outputs.

Each GTCFibre can be managed through a web server; it is also compatible with SNMP and Syslog protocols,

A dedicated software, INFOLINK, allows the monitoring of all the many features of GTCFibre, individually and in groups, of all the units (tens, hundreds or thousands) present in an area.

