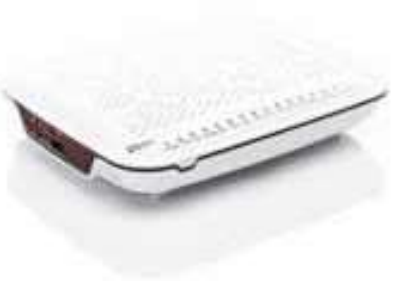
Easy migration for cable operators to FttH networks

Normann Engineering presents an overall concept for cable operators who intend to migrate their customers to GPON

Nowadays many network operators face the challenge to expand their network for direct FttH applications. Together with ZTE Normann Engineering offers complete solutions to simplify the entry into PON technologies for cable providers and other telecommunications companies. Since GPON has meanwhile become the dominating FttH technology in Europe and beyond, prices for terminal devices have correspondingly fallen significantly in recent years. A migration to GPON is relatively simple to realize due to the fact that optical networks for RFoG and GPON applications are very similar or even almost identical.



ZTE ONT with WiFi & Voice

Complete management solutions are supplied by Normann Engineering and can be adapted according to the clients' needs. In the case of smaller projects an equivalent management can be provided over a cloud-solution. This includes both administration of the OLTs in the headend and provisioning as well as surveillance of subscribers' devices (ONTs).

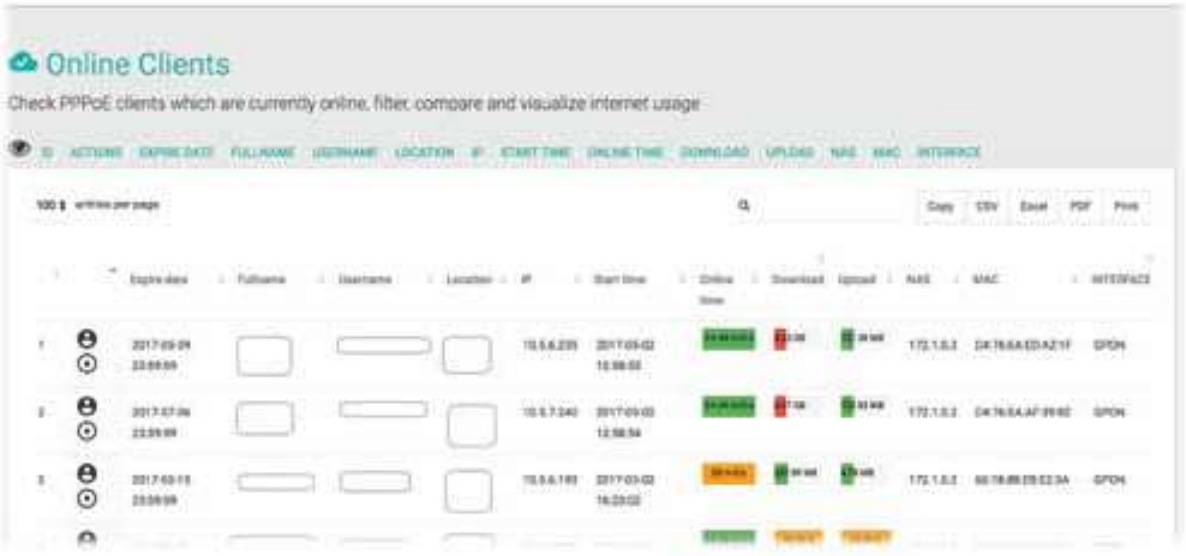
Compact ZTE OLT in headend

ONTs (CPEs for end customers) are available in a similar version as, for example, cable modems. Usually all-in gateways including WiFi and Voice are being deployed in networks. Very often such ONTs are also equipped with RF port for video overlay applications for transmitting an existing digital video signal. Although GPON is considered to be a general standard it is recommended, to use ONTs from the same manufacturer as the OLTs.

For cable operators aiming for a more gradient transition to FttH various RFoG concepts should be taken into account. Different solutions for encountering the OBI issue (Optical Beat Interference) are offered by leading manufacturers such as ARRIS or DCT Delta. Active optical PON splitters could be one means or so called OBI-free RFoG nodes with different wavelengths another.

Normann Engineering supports clients during the entire project phase, starting with planning and installation of OLT units in the headend, deployment, setting up of ONTs in the field up to all related maintenance topics (e.g. installation training or maintenance of optical fibers with the accurate measuring techniques).

Alongside Huawei ZTE is regarded as one of the leading manufacturers of GPON components worldwide. When it comes to video overlay Normann Engineering is also offering products by ARRIS or IPG Photonics.



Management Tools for GPON Providers