A SIMPLY PERFECT **NETWORK.**

G@Co-LIGHT TAKES THE UNUSUAL PATH

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DELTA Electronics

G@Co-LIGHT, A VERSATILE AND COST EFFICIENT SOLUTION FOR THE LAST METER ON EXISTING COAX INFRASTRUCTURE.

The high bandwidths resulting from network upgrades must reach the end customer to meet the increasing demand. Often the broadband expansion stops at the curb of the street or at the house handover point.
Necessary modernizations often fail due to the high costs and heterogeneous owner interests.

G@Co-Light follows the MoCA-Standard to overcome these obstacles of the last meters and enable forwarding high data rate to the end user while using the existing in-house coax networks.
The idea behind G@Co-Light is simple, a MoCA Gateway converts the high-speed optical IP signal to an electrical OFDM-modulated QAM signal.

The new QAM signal is fed into the existing coax network and provides up to 2.5 Gbps to end users. In other words the MoCA Gateway turns the legacy coax network into a 2.5 Gbps super highway.The new QAM signals are transmitted at frequencies of 1125MHz – 1675MHz and therefore can be transmitted in parallel to any existing CATV oreven DOCSIS 3.1 signal.

At the customer's site, the MoCA QAM signal is terminated by a standard and cost-efficient MoCA end unit

Challenge in todays' network infrastructure on the last meter:

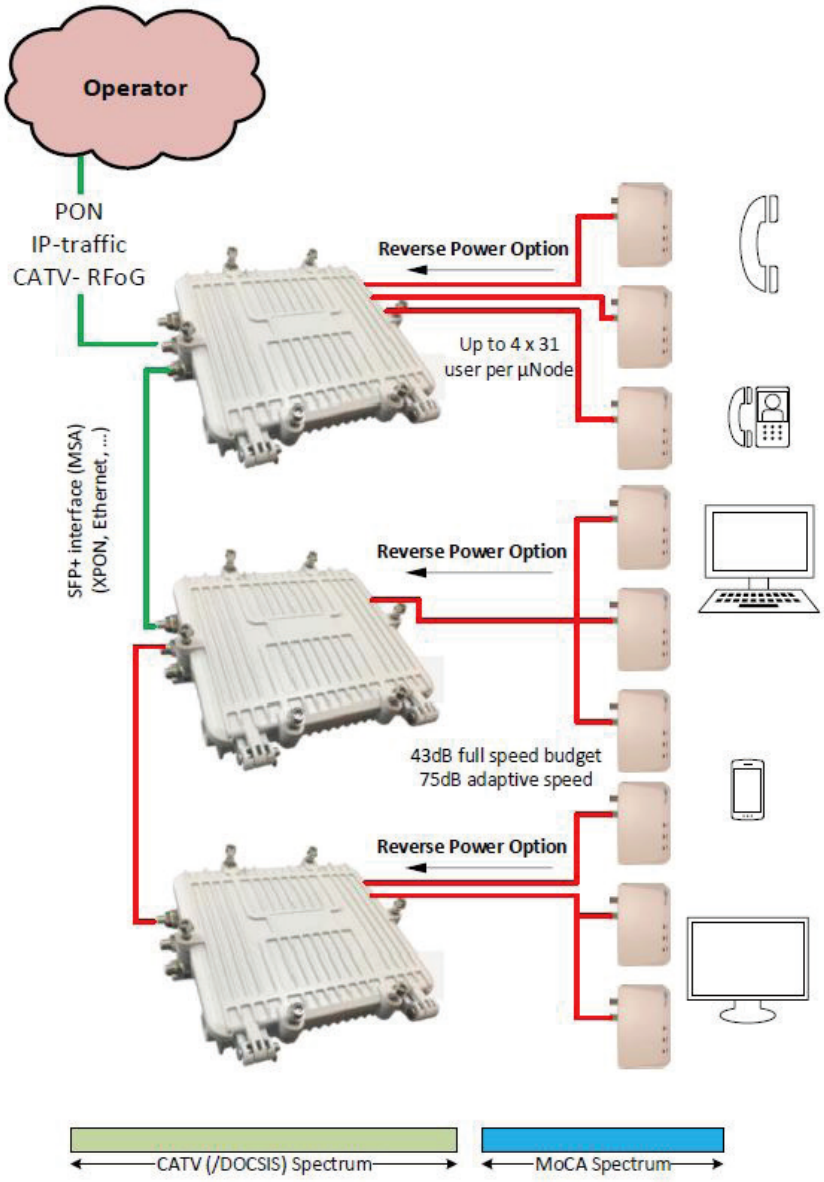
- High Bandwidth demand
- High cost for the last meter of fiber Deployment
- Manifold ownership of last meters environment impedes infrastructure modernization

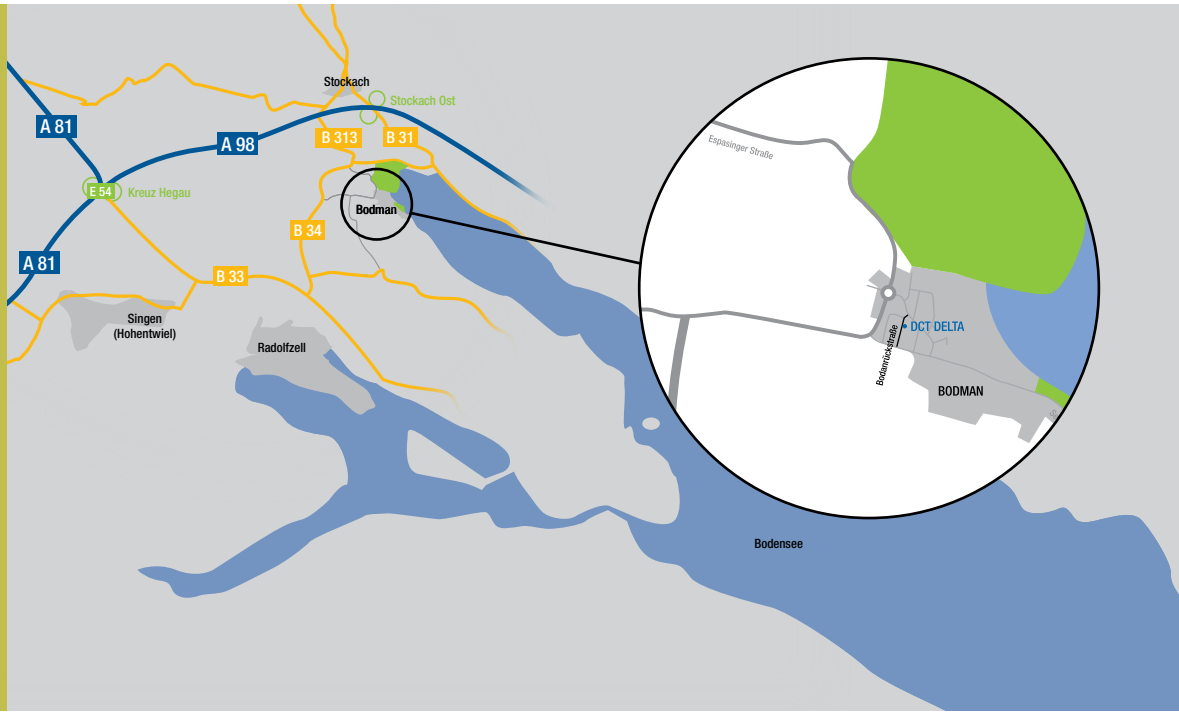
Main Applications of G@CoL:

- Network level 4, or: "The last Meter"
- Network level 3: High-Speed-Connection instead of deploying fiber
- Bandwidth enhancement on Coaxial cable
- Modernization to Fiber is too expensive or impossible
- Triple play service (CATV/DOCSIS, VoIP, Internet services, …)
- Terminating PON-Infrastructure

Key Benefits of G@CoL:

- Fast service implementation as no planning, approval and construction is needed
- Low installation cost (using legacy Coaxial cable)
- 2.5Gb/s per Coax trunk (shared bandwidth Up-/Downstream)
- Up to 4 trunks each 31 users per µNode (4 x 2,5Gb/s = 10Gb/s)
- Independence of OLT brand due to optical termination by any MSA-compliant SFP+ Module
- Works in parallel with legacy CATV
- Wide range of default behavior (from plug and play till restricted access)
- Create Daisy chain in case of “hundreds of last meters”
- Reverse power option for powerless installation





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