



Teamly Digital (TD), an innovative company designer, producer and provider of network access and infrastructure solutions, launches its TDBM010C product to provide end-to-end 2.5Gb/s network bandwidth over coaxial cable and Ethernet.



**TD** designed TDBM010C in association with Intel® to provide its strong experience and knowledge on 2.5Gb/s GPY211 Ethernet PHY and with MaxLinear to provide its industry-leading MoCA 2.5 IC, the MxL3710. The solution delivers an end-to-end 2.5Gbps coaxial to Ethernet interface.

“TDBM010C is the final piece of Teamly Digital’s Copernic® solution that delivers fiber speed over existing coaxial network. TDBM010C restitutes Copernic® fiber bandwidth on its 2.5GB/s Ethernet link, ensuring full end-to-end solution performance reaches end-user. TD’s Copernic® solution breaks limitations on 2.5Gb/s Internet access bandwidth deployment as cable operators benefit from a cost competitive, flexible and operationally transparent multi gigabit broadband delivery system that can be deployed quickly over existing networks without any impact to legacy DOCSIS and QAM video services. Our implementation can be provisioned as a standard DOCSIS device and enables scalable, selective network upgrades,” says Michel Kuntz, president of TD.

Copernic® addresses a key dilemma of every cable MSO, justifying the extremely high cost of “last meter” hybrid fiber-coaxial (HFC) network upgrades to enable fiber to the building (FTTB) or fiber to the home (FTTH).

These “last meter” network upgrades are extremely difficult to cost-justify as the expense of construction and installation is not distributed across hundreds or thousands of users but rather a single user or best case low tens of customers. Designed specifically to deliver ultra-broadband services utilizing the existing HFC plant, Copernic® enables new multi-gigabit capacity while co-existing with legacy cable, satellite and terrestrial networks on the same coaxial cable.

Copernic® delivery solution with both TD’s micronode and TDBM010C was demonstrated at CES 2019. Micronode is the transition point from the passive optical network (PON) to the “last meter” coaxial network. Up to eight MxL371x MoCA 2.5 networking ICs are integrated into a micronode and serve individual TDBM010C (CNU) to deliver multi-gigabit speed services to the individual subscriber.

Another key benefit of the Micronode-TDBM010C couple is power savings compared to alternative solutions as each TDBM010C installed in customer premise serves power to the Micronode. Micronode, in turn, ensures fare shared power consumption between each of its power providers.

Added Vincent Pirson, Senior Vice President New Access Technology of Teamly Digital: “MaxLinear’s MoCA 2.5 technology is key to solving a crucial part of the challenge, which is getting gigabit bandwidth from the existing coax infrastructure.”

“Ultra-broadband access networks open up new service options for cable operators, making it imperative to build out networks as quickly as possible. MoCA 2.5 is a proven technology that is delivering gigabit-speed data services today making it a great choice for these operators,” said Will Torgerson, Vice President & General Manager of the Broadband Group. “Market innovators like Teamly Digital are providing tangible solutions to bandwidth constraints and cost challenges faced by MSOs. We look forward to being part of this exciting development utilizing our MoCA 2.5 technology.”

### **MxL3710 and MxL3711 Technical Features**

Both the MxL3710 and MxL3711 utilize MaxLinear’s patented Full-Spectrum Capture™ (FSC™) technology that can simultaneously digitize up to 1.4GHz of spectrum (between 400MHz and 1700MHz), eliminating discrete components required for frequency conversion. Each product features fully digital channel selection and signal processing chain as well as MoCA network processor and three-port, layer-two switch between its interfaces.

The MxL3710 features two SGMII high-speed interfaces while MxL3711 supports one SGMII and one PCIe. Both products exceed strict performance requirements defined by the MoCA 2.5 standard. Having this additional performance margin enables customers to significantly reduce the overall implementation cost and provide more reliable service over a larger installation area.

MaxLinear MoCA 2.5 ICs come complete with a suite of diagnostic software functions that provide detailed visibility into radio frequency (RF) and networking specific parameters. Most notable is the spectrum analyzer feature that enables unique installation and remote diagnostic tools, reducing truck rolls, improving installation quality and improving overall network performance with proactive network management tools.