cOSMo is a new socket C-OFDM modem for embedded applications. It features exceptional reliability in problematic environments and very quick synchronisation.

cOSMo enables data rates of up to 1000 kbps across simple twisted-pair, co-ax and power cables that may be several miles long. No matter whether in a Point-to-Point (PtP) or Point-to-Multipoint (PtMnP) topology, the modem particularly qualifies for use in existing infrastructure.

cOSMo is based on a proprietary modem technology designed to transparently link any local data source, e.g. a UART, an SPI- or any other type of interface to a remote device.

cOSMo is a universal modem for data transmission near the theoretical limit over channels exposed to linear distortions, impulse noise, sudden phase and amplitude shifts, frequency offsets and line drop-outs.

A companion Spartan-6 FPGA can be used for forward error correction (FEC), encryption, data compression and interfaces such as CAN, digital cameras, or general purpose I/O.

For analog signals a single 24-bit audio codec is available. Sampling rates of up to 100kHz are possible for highest audio quality.

The patented technology behind cOSMo is available as a licensable code or hardware for use in home automation, infrastructure, power line, telecom, imaging, speech and security applications.