cyberTEQ

Event Data Transfer System

cyberTEQ is a cabeling system that combines all signals of different applications and devices with ethernet protocol, transfers that bundle via an optical or copper connection and splits them again to their corresponding devices and applications.

With only one cable between two cyberTEQ units you can transmit **up to 512 CobraNet™ channels** or **up to 512 EtherSound™ channels** or a combination of CobraNet™ and EtherSound™ simultaneously. Additionally it transfers the data of multiple DMX512 lines (NSP, light jockey), control signals like RS232, RS422 and RS485, USB 2.0 data and CAN-Bus signals (UCC1) by using equivalent ethernet converters. Webcams, internet, WLan-broadcasting station and many more applications are possible likewise.

cyberTEQ offers 24 ports of 100MBit and two 1GBit uplinks. It causes no relevant latency ($<4.9\mu s$).

Using more than two cyberTEQ units distribution of the entire signalflow or parts of it among severals localities like FOH, stage, radioroom, ampcity, monitordesk, multi track recording, broadcast van, lighting console, dimmer city, signal disposition in a conference system can be done.

Copper cables (CAT5/6) and / or fibre optic cables are used to connect the cyberTEQ units with each other.

The maximum distance with copper cable is 80m, the maximum distances using fibre optics are 550m with multimode and 10km with singlemode cable.

To achieve redundancy the cyberTEQ units are connected in a ring. The show goes on even if one optical or copper cable is badly or partially damaged. You can also use redundance modes most CobraNet™ or EtherSound™ interfaces offer.

All connectors are heavy duty Neutrik connectors with a locking mechanism. The optical connector is the Neutrik OpticalCon, designed for stringent demands on the road. The four copper cables offered by the Neutrik OpticalCon are connected to a six pin XLR female socket on the rear panel. In addition ordinary RJ45/LC connectors can be used (e.g. for internal rack cabeling).

The optional RS232/422/485 converter offers a maximum speed of 921 Kbps.

The complete technique of a cyberTEQ unit (PSUs, fibre optic converter, optional USB 2.0 converter, optional RS232/422/485 converter) is combined in a rugged 1U unit of 438 x 483 x 44mm.