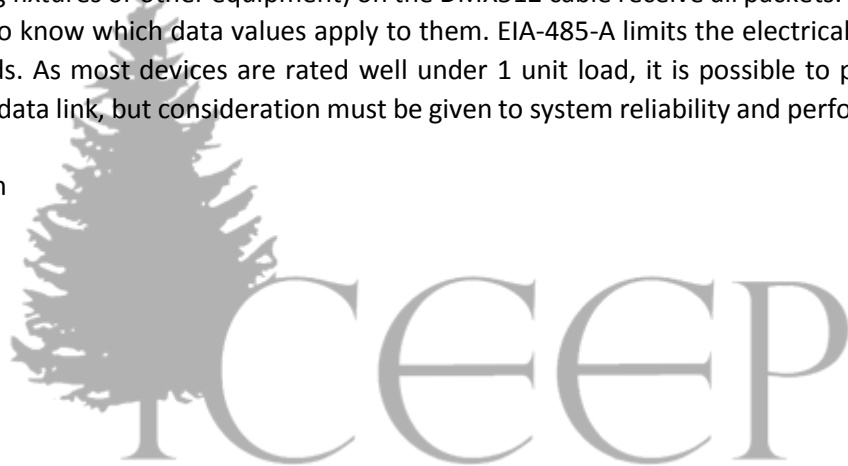# DMX512

Contents

1- Description

DMX512 is a standard that describes a method of digital data transmission between controllers and lighting equipment and accessories. It covers electrical characteristics (based on the EIA/TIA–485 standard), data format, data protocol, and connector type. This standard is intended to provide for interoperability at both communication and mechanical levels with controllers made by different manufacturers. The 1986 and 1990 versions also addressed cable requirements and premises wiring. A series of ANSI standards are being developed to address these cable issues not appearing in the ANSI version. DMX512 comes from Digital Multiplex with 512 individual pieces of information.

A DMX512 is a controller sends packets containing between 24 and 512 single byte data values. All devices (lighting fixtures or other equipment) on the DMX512 cable receive all packets. These devices must be configured to know which data values apply to them. EIA-485-A limits the electrical load on a data link to 32 Unit Loads. As most devices are rated well under 1 unit load, it is possible to place more than 32 devices on one data link, but consideration must be given to system reliability and performance should one data link fail.

In this design

2- References

[1] http://www.lafoy.fi/TARINAT/Ohjausprotokollat/Ohjausprotokollat%20valoille.pdf