

IEEE 802.3 motions

IEEE 802 LMSC

Friday 15 March 2024

5.031 ME: IEEE P802.3dm Asymmetrical Electrical Automotive Ethernet to NesCom

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Title

Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for Asymmetrical Electrical Automotive Ethernet

Scope of project

The scope of this project is to specify additions to and appropriate modifications of IEEE Std 802.3 to add Physical Layer specifications and management parameters for electrical media and operating conditions that are optimized for automotive end-node camera links for operation up to 10 Gb/s in one direction and with a lower data rate in the other direction.

Need

Automotive in-vehicle networks are transitioning to Ethernet. High-bandwidth links such as imaging sensors at end-nodes of the network where the backchannel is low bandwidth are important parts of this transition. These end-nodes are highly constrained on complexity and power consumption and converting them to Ethernet will require solutions specified for their operating conditions.

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Motion

Approve forwarding IEEE P802.3dm PAR documentation in <<https://mentor.ieee.org/802-ec/dcn/24/ec-24-0014-05-00EC-draft-ieee-p802-3dm-par.pdf>> to NesCom

Approve CSD documentation in <<https://mentor.ieee.org/802-ec/dcn/24/ec-24-0015-01-00EC-draft-ieee-p802-3dm-csd.pdf>>

M: Law, S: D'Ambrosia

Y: ??, N: ?, A: ?

Working Group vote

PAR: Y: 72 N: 9 A: 23

CSD: Y: 87 N: 0 A: 12