

IEEE 802.3 Ethernet Working Group Liaison Communication

Source: IEEE 802.3 Working Group¹

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From: David Law Chair, IEEE 802.3 Ethernet Working Group
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Subject: Request for clarification of Effective Modal Bandwidth (EMB) at 980 nm for OM3 fibres
Approval: Agreed to at IEEE 802.3 interim teleconference meeting, 26 May 2022

Dear Mr Bouquan,

To address improved reliability in the automotive environment, the current IEEE P802.3cz Multi-Gigabit Optical Automotive Ethernet Task Force baseline draft utilizes the 980 nm wavelength for transmission in the multi-gigabit automotive Ethernet link.

The task force respectfully requests that IEC TC 86 extend the informal guidance for worst case EMB to nominal 980 nm. Currently, in IEC 60793-2-10_ed.7.1 Annex E, Figures E.1, E.2 and E.3 provide estimated EMB values up to 953 nm. The IEEE P802.3cz project specifically requires extension for OM3 up to 990nm.

Sincerely,
David Law
Chair, IEEE 802.3 Ethernet Working Group

¹ This document solely represents the views of the IEEE 802.3 Working Group and does not necessarily represent a position of the IEEE, the IEEE Standards Association, or IEEE 802.