

IEEE 802.3dm Baseline Motions

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Common Decisions made so far

- Text adopted for XGMII interface to be used (common to TDD, ACT)
 - 64B/65B PCS encoding to be used for the XGMII, supporting an asymmetric XGMII
- PAM-4 modulation to be used for 10 Gb/s data rate in the high-speed direction (text adopted)
- PAM-2 modulation to be used for 2.5 Gb/s & 5 Gb/s data rate in the high-speed direction
 - Motion to use PAM-2 for both 2.5G and 5G failed at first
 - The two proposals use differing baud rates
- MDI Return Loss
- Minimal baseline text for Link segment sections (no IL, RL, or delay specifications)
- Baseline text for environmental specifications (common for most automotive PHYs)
- Text for Clause 30 Management
- Text for Clause 45 Management

Approved Motions (July 2025 Plenary)

- **MOTION #7** : Adopt the Clause 30 proposed text in [...0725/8023dm_Clause30_proposal.pdf](#) with Editorial License
MOTION PASSES WITHOUT OBJECTION.
- **MOTION #8**: Adopt the Clause 45 proposed text in [...0725/8023dm_Clause45_proposal_v2.pdf](#) with Editorial License
MOTION PASSES WITHOUT OBJECTION.

Approved Motions (May 2025 Interim)

May 2025 IEEE 802.3 Interim

MOTION #1: Add an objective to IEEE P802.3dm that states: “Do not preclude using the low data rate signal to extract the timing reference for the high-data rate transmitter.”

Y: 37 N: 11 A: 7 MOTION PASSES

- **MOTION #2:** Move to replace the adopted MDI RL with the corrected MDI RL found on Slide 4 of Jonsson_3dm_01_03_24_25.pdf

MOTION PASSES BY UNANIMOUS CONSENT

- **MOTION #3:** Move to adopt as baseline text the text on slides 2 through 5 of [jonsson_chini_3dm_01_05_15_25.pdf](#) with editorial license.

Y: 46 N: 2 A: 2 MOTION PASSES

Approved Motions (May - Mar 2025)

May 1, 2025 Electronic Interim

- **MOTION** : Move to adopt PAM2 for 5 Gb/s for the high speed direction
MOTION PASSES BY UNANIMOUS CONSENT

March 2025 IEEE 802 Plenary

- **MOTION #4:** Move to give the editor license to add any necessary references to asymmetric PHYs in Clause 46 and its subclauses.
 - Yes: 50 No: 1 Abstain: 9 – **MOTION PASSES**
- **MOTION #6:** Move to adopt PAM2 for 2.5G transmitter
 - Yes: 49 No: 10 Abstain 3 – **MOTION PASSES**

Approved Motions (January 2025)

January 2025 IEEE 802.3 Interim

- **MOTION #3:** Move to adopt XGMII (IEEE Std 802.3 Clause 46) for all data rates and for both directions with clocks determined by direction's bit rate
Y: 44 N: 0 A: 4 **MOTION PASSES WITHOUT OBJECTION**
- **MOTION #4:** Move to adopt 64B/65B encoding of the XGMII input to the PHY for both directions and all data rates.
MOTION PASSES WITHOUT OBJECTION
- **MOTION #5:** Adopt the text shown on slide 3 of [zimmerman_text_to_adopt_xgmii_0125b.pdf](#)
MOTION PASSES WITHOUT OBJECTION

(Motions for January 2025 Continued next page)

Approved Motions (Jan 2025 – Nov 2024)

January 2025 IEEE 802.3 Interim (cont'd)

- **MOTION #6:** Move to adopt PAM4 modulation for the 10G transmitter
MOTION PASSES WITHOUT OBJECTION
- **MOTION #7:** Adopt the text shown on slide 3 of [MotionPam4For10G](#) for clause 200.4.2.2.17.
MOTION PASSES WITHOUT OBJECTION

November 2024 IEEE 802 Plenary

- **MOTION #5:** Move to adopt MDI Return Loss Limit proposal on slide 2 of [jonsson_chini_3dm_01_11_13_24.pdf](#) with editorial license.
Y: 45 N: 4 A: 6 **MOTION PASSES**