

P802.3cy Approved Updated Objectives – July 14, 2022

Preserve the IEEE 802.3/Ethernet frame format at the MAC client service interface

Preserve minimum and maximum frame size of the current IEEE 802.3 standard

Support full duplex operation only

Define optional startup procedure which enables the time from power_on=FALSE to a state capable of transmitting and receiving valid data to be less than 100ms

Support a BER better than or equal to 10^{-12} at the MAC/PLS service interface (or the frame loss ratio equivalent)

Support a data rate of 25 Gb/s at the MAC/PLS service interface.

Support optional Auto-Negotiation

Support optional Energy Efficient Ethernet optimized for automotive applications

Support operation in automotive environments (e.g., EMC, temperature)

Do not preclude meeting FCC and CISPR EMC requirements.

Updated Objectives P802.3cy

Define the performance characteristics of an automotive link segment and an electrical PHY to support 25 Gb/s point-to-point operation over this link segment supporting up to 2 inline connectors for at least **11** m on at least one type of automotive cabling.

Support optional Clause 104 power over data lines on appropriate media.

Updated Objectives P802.3cy

See

[https://grouper.ieee.org/groups/802/3/cy/public/jun22/Unconfirmed minutes 3cy 060722.pdf](https://grouper.ieee.org/groups/802/3/cy/public/jun22/Unconfirmed_minutes_3cy_060722.pdf) , Motion #2

Approved by the IEEE 802.3 Working Group July 14, 2022

MOTION #9

Move that the IEEE 802.3 Working Group approve the updated objectives as shown on slides 2 and 3 of https://ieee802.org/3/cy/public/may22/wienckowski_3cy_02_05_24_22.pdf.

M: Steve Carlson on behalf of the task force

Technical ($\geq 75\%$)

Y: 99 N: 3 A: 14

Motion Passed 14-July 2022, 14:33 EDT