

# Joint T11.2/T11.3 Ad Hoc Group Meeting Report August 2019

- Met on Wednesday, August 14<sup>th</sup> from 1:30pm to 2:40pm
- **128GFC module options, Anil Mehta, BSN, T11-2019-226-v1**
  1. 112.2Gbps data rate
  2. 100 meters OM4/OM5
    1. Very preliminary work at IEEE is estimating 30 meters
    2. Need to verify reach requirements with FCIA
  3. Proposing single lane variant (not BiDi)
  4. Proposing keeping the center wavelength at 850nm for backward compatibility to 32GFC
    1. Finisar presentation had a 940nm center wavelength
  5. Backward compatibility is the key
- **C2M training on 128GFC links, Anil Mehta, BSN, T11-2019-00225-v0**
  1. Proposal to support C2M transmitter training on all C2M links at 128GFC
  2. Proposed the bits that would be required to support this training
  3. Group asked for some additional data on why this is required
  4. Group also requested further clarification on how this would work

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- **Data path options negotiation for 128GFC, Anil Mehta, BSN, T11-2019-00224-v0**
  1. Proposed using the RS(544,514) FEC
    1. Will have a negotiated option to use a single RS(544,514) FEC or an interleaved RS(544,514)
  2. Will have a negotiated option to support bit muxing versus symbol interleaving
  3. Will continue to have pre-coding option and will monitor work on newer pre-coding schemes
- **FEC options for 128GFC, correction capability, Andy Joy, Marvell, T11-2019-227-v1**
  1. Reviewed the effectiveness of five different types of FEC
    1. Single RS(544,514)
    2. Dual PAM-4 symbol interleaved
    3. Dual FEC symbol interleaved
    4. Single RS(560,514)
    5. Single RS(576,514)
  2. Next steps are to make an estimate on required coding gain based on the channel requirements for 128GFC.

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- **Other options for 128GFC FC FECS, Raul Oteyza, Marvell, T11-2019-223-v0**
  1. Reviewed the block time, cell area, pros and cons of four different types of FEC
    1. RS(544,514, 15,10), Interleaved RS(544,514,15,10), RS(560,514, 23,10), RS(576,514,31,10)
  2. The presentation highlights implementation details with the different types of FEC.

# **Joint T11.2/T11.3 Ad Hoc Group Meeting requests August 2019**

- **Future meeting schedule**
  1. Wednesday 10/09/19 from 1:30 to 3:00 in Couer d' Alene, ID
  2. Request two conference calls.