

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

- Met on Wednesday, October 9th from 1:30pm to 3:00pm

- **C2M training on 128GFC links, Anil Mehta, BSN, T11-2019-00225-v2**
 1. Algorithm was discussed that would support transmit training between the host ASIC and the modules.
 2. Training to improve optical link quality was also discussed.
 3. This will have an impact on circuitry in the modules.

- **Multi-lane modules for 64GFC, Anil Mehta, BSN, T11-2019-304-v0**
 1. The requirement for multi-lane modules was presented
 2. A four lane variant (256GFC, 4x64GFC) QSFP based module
 3. A two lane variant (128GFC, 2x64GFC) SFP-DD based module
 4. FCIA was asked if a two lane variant should be supported.
 5. The requirement for multi-lane modules was presented

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

- **FEC options for 128GFC, correction capability, Andy Joy, Marvell, T11-2019-298-v0**
 1. RS(544,514) with pre-coding added to previous slides
 2. Table updated with uncorrected BER numbers for the types of FEC implementation being considered.
 3. PAM4 SNR added to the presentation
 4. COM simulation results for 106.25Gbps and 112.2Gbps added to the presentation for C2M and backplane
 5. COM results for the 112.2Gbps and corrected BER of $1e-15$ do not meet the COM 3dB minimum budget.
 6. How to improve COM results will be discussed in interim conference call
- **Other options for 128GFC FC FECS, Raul Oteyza, Marvell, T11-2019-223-v1**
 1. Logic optimization of the FEC was done to reduce overall size
 2. Updates for RS(528,514), RS(544,514), RS(560,514), RS(576,514)
 3. Size estimate for combined RS(560,514) + RS(544,514) + RS(528,514)
 4. Size of combination the same as standalone RS(560,514)

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

- **128GFC speed doubling and now you know the rest of the story, Adrian Butter, Averagesemi, T11-2019-275-v0**
 1. FC-PI signaling rate versus data rate was reviewed for all FC speeds.
 2. Data rate versus payload size and overhead for the various speeds was reviewed.
 3. Data throughput versus payload size for a given overhead was shown.
 1. Group believes this would be good to include in feature versions of FC-FS

Joint T11.2/T11.3 Ad Hoc Group Meeting requests October 2019

- **Future meeting schedule**

1. Wednesday 12/04/19 from 1:30 to 3:00 in New Orleans, LA
2. Request two conference calls.