PHY discussion

May 24, 2018

2.5 G vs 10 G

- 2.5 G has no issues with SNR margin
- Compare 2.5G design compatible with 1G vs. 2.5G design compatible with 10G

2.5 G Modulation to consider

- 1 to 3 bits / symbol → 0.47 to 1.5 GHz max link segment bandwidth
  - 1.5 to 2.5 bits / symbol had broad support, but there was not consensus to remove 1 or 3 bits / symbol
- Reed-Solomon FEC

10 G Modulation to consider

- 2 to 2.5 bits/ symbol → 2.3 to 2.8 GHz max link segment bandwidth
- Reed-Solomon FEC