SUMMARY OF DISCUSSION POINTS

AT JANUARY 2019 INTERIM

PACKAGE

- Slide 8 of benartsi_3ck_01_0119.pdf as the baseline
  - Two segment model → x length package + 1.8mm PTH
  - Symmetric TX/RX package
  - 2 test cases: 12 mm & 32 mm
  - Impedance 87.5 ohm (transmission line), 92.5 ohm (PTH)
  - C_p = 87 fF
  - C_d = 110 fF

- Ability to equalize all package reflections

CHIP-TO-MODULE

- How to determine appropriate channels
- C2M packages
- 4 reference receivers on the table
  - 4-tap DFE (b1max=0.5)
  - 5-tap FFE with 4 postcursor taps + 1-tap DFE
  - 5-tap FFE with 4 postcursor taps
  - 4-tap DFE with low b1max (b1max=0.1)

BACKPLANE

- 3 reference receivers on the table
  - DFE-only
  - FFE-lite + DFE
  - 1-tap DFE + FFE-heavy
- Purpose of reference receiver
- How much equalization is too much?
- Will channels improve?

FEC

- Necessity of changing FEC
- Interleaved FEC on the table
- Precoding impact in C2M
- Precoding necessity in C2C
- Precoding necessity in KR/CR
- Supporting 2 modes