

Bandwidth

Phase-1

Rate → **400 MHz/cm²**

L1 rate **100 kHz**

x 25~50

x 5

x 5~10

HL-LHC

Rate → **2 GHz/cm²**

L1 rate **750 kHz**

Optical on-board readout not possible:

- Rad-hardness
- Material/space

=> **Electrical links to opto links**

