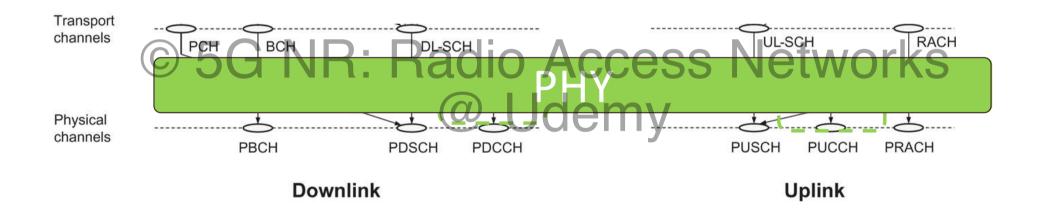
5G NR: Radio Access Networks

PHYSICAL LAYER (PHY)

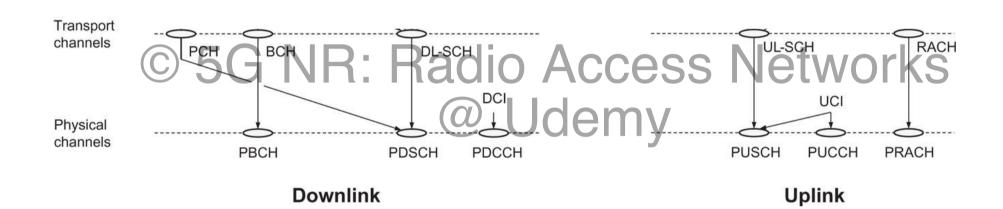
Physical Layer

"set of time–frequency resources used for transmission of a particular transport channel"



Physical Layer

"set of time-frequency resources used for transmission of a particular transport channel"



PBCH — Physical broadcast channel

PDSCH — Physical downlink shared channel

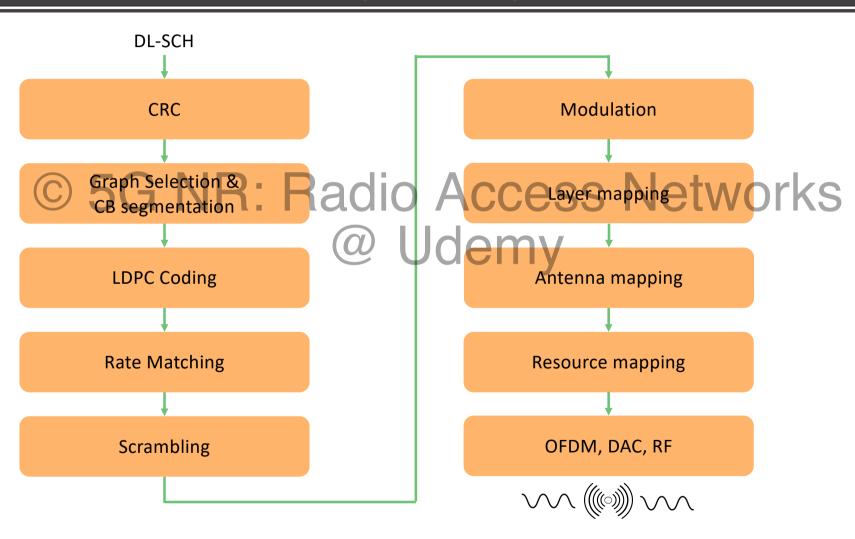
PDCCH — Physical downlink control channel

PUSCH — Physical uplink shared channel

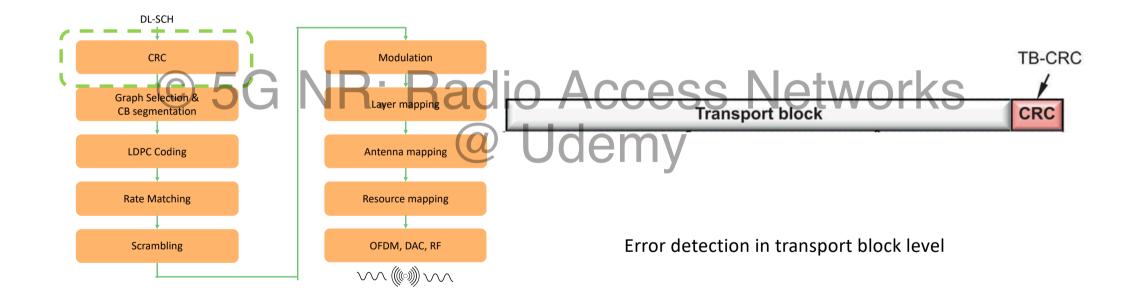
PDCCH — Physical uplink control channel

PRACH - Physical Random Access Channel

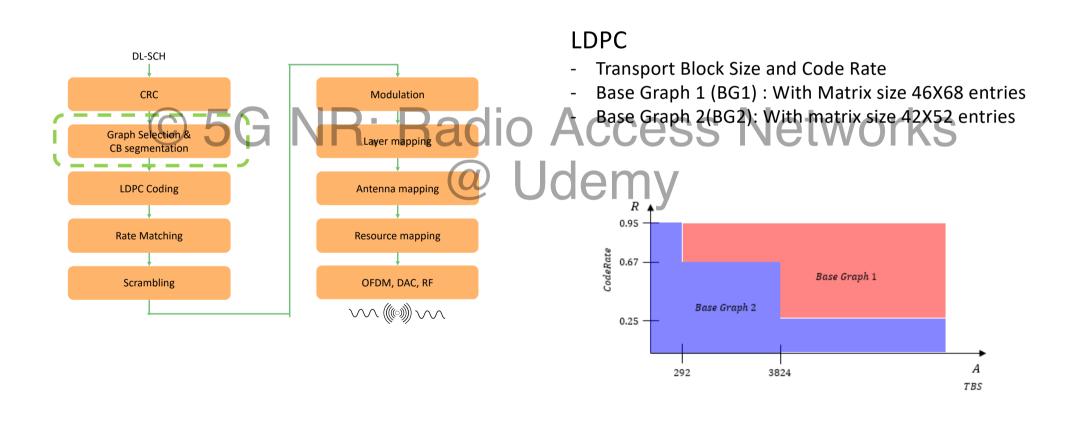
Physical Layer



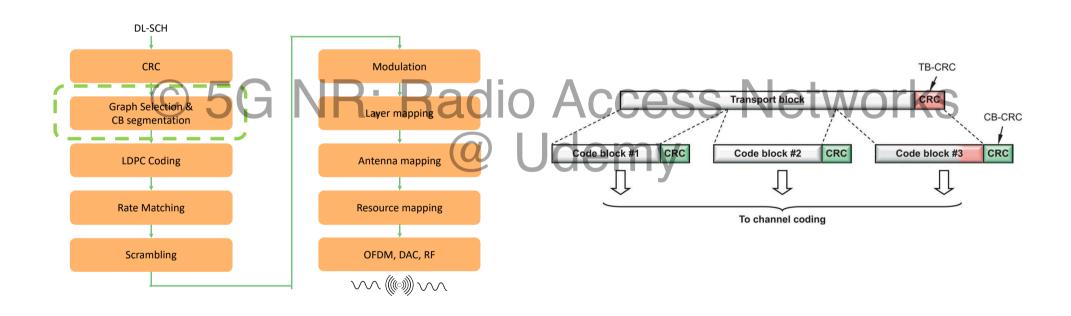
CRC



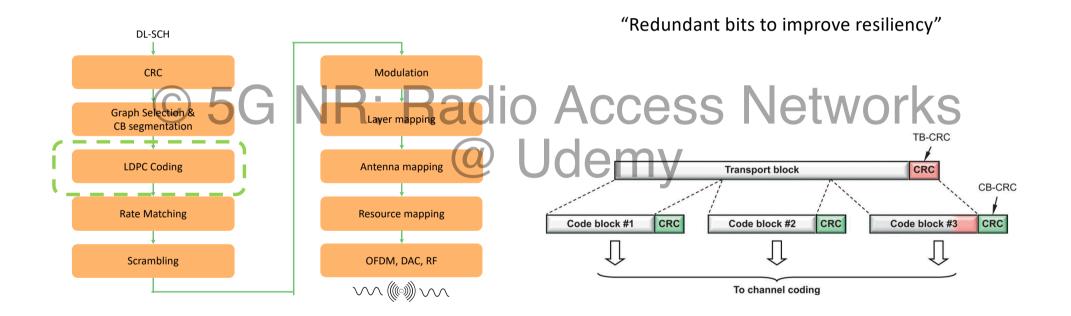
LDPC Graph Selection



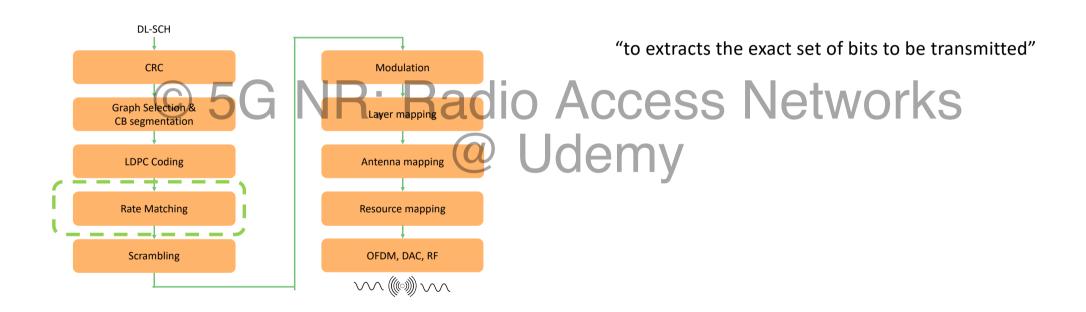
Code Block Segmentation



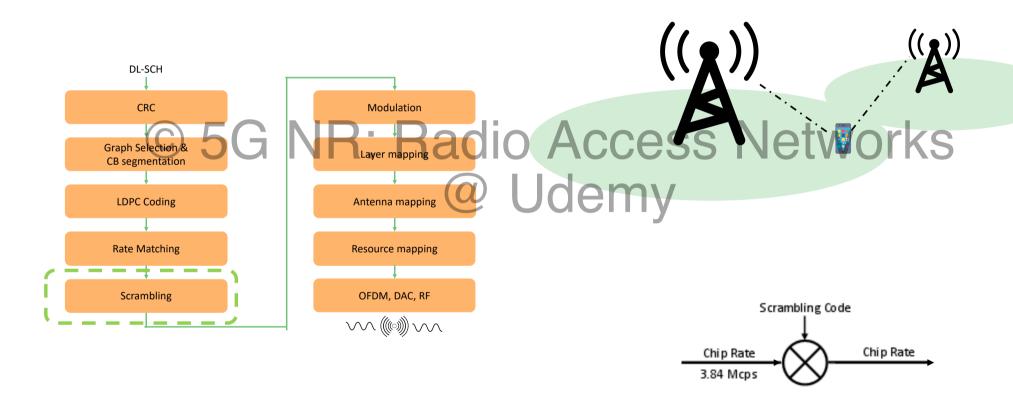
LDPC Coding



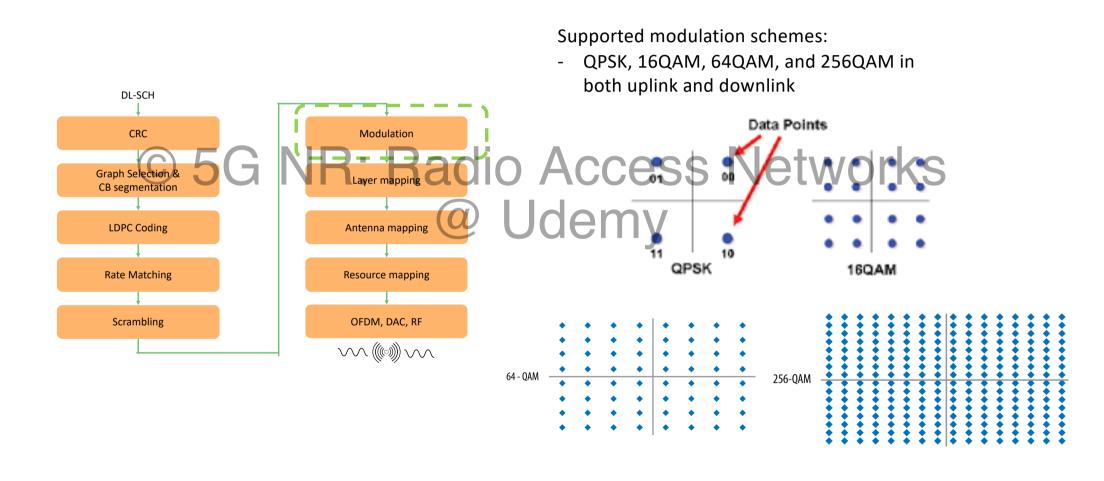
Rate Matching



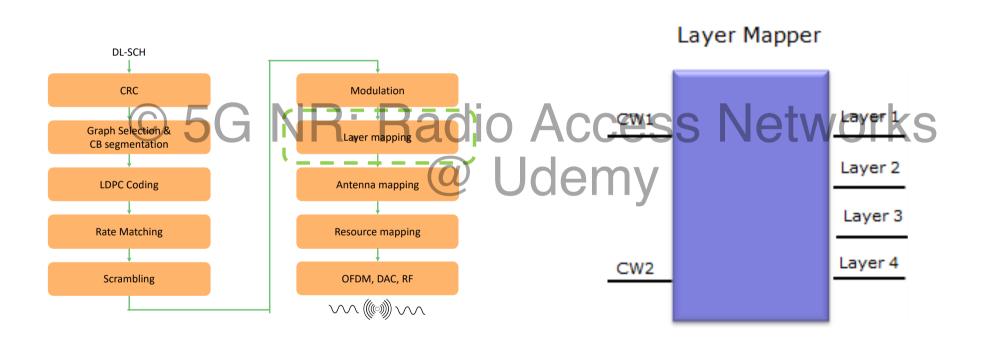
Scrambling



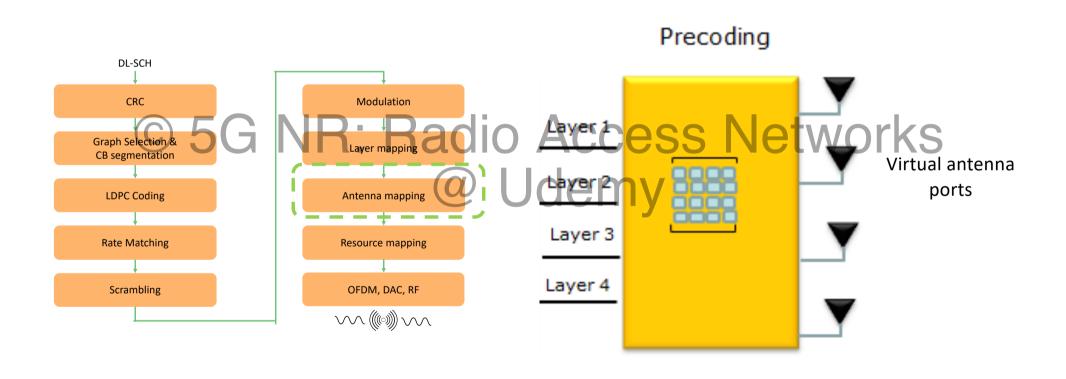
Modulation



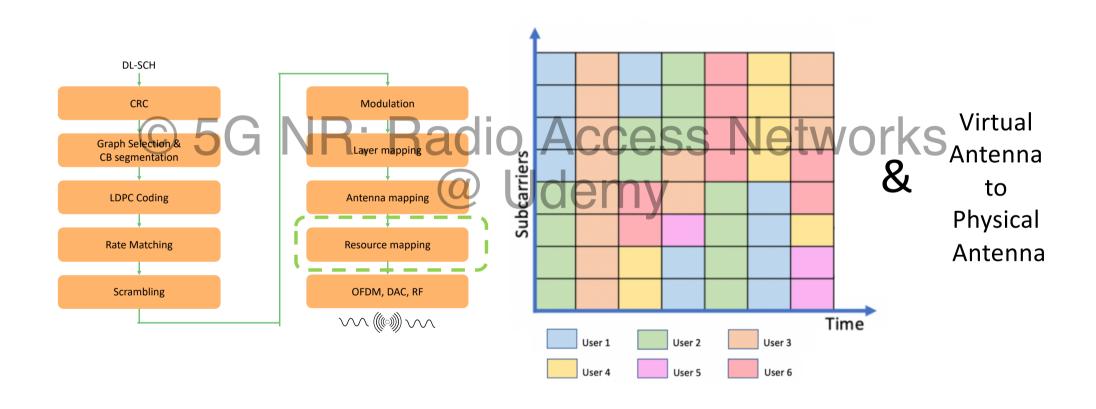
Layer Mapping



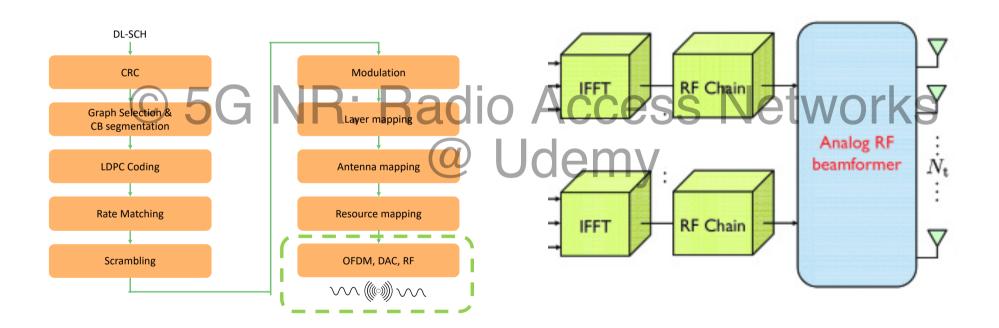
Antenna mapping and Precoding



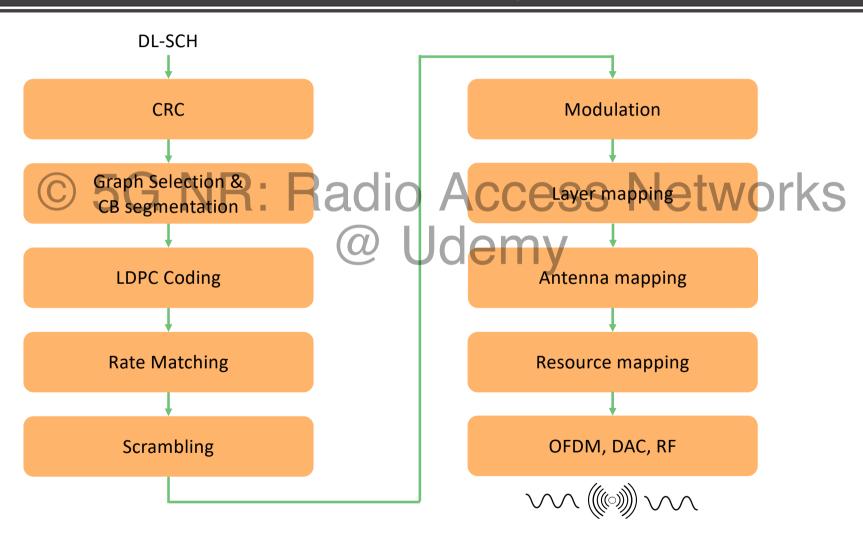
Resource and physical antenna mapping



OFDM, DAC, RF



Summary



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