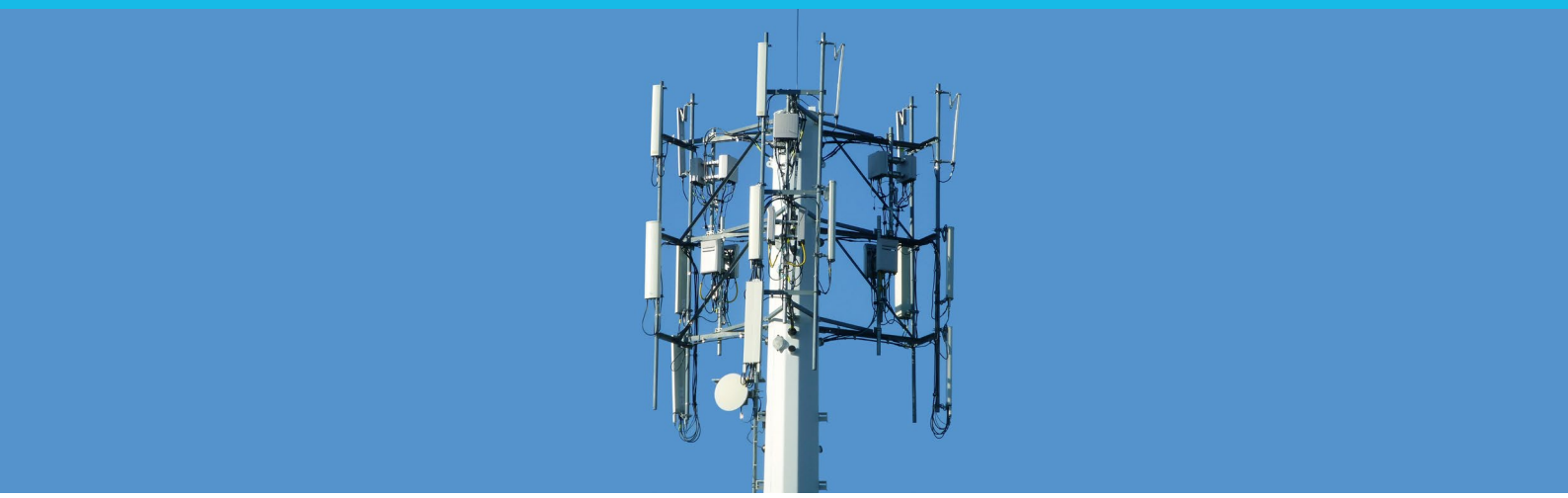
b<>com *Wireless Library* [LDPC FEC]

A multi-standard LPDC channel processing solution ready for 5G



b<>com *Wireless Library* [LDPC FEC] enables broadband wireless transmissions. It implements Forward Error Correction (FEC) across a wide range of Physical Layers and standard specifications including 5G-NR. This is an IP that can be easily integrated into your product design.

{key features} :

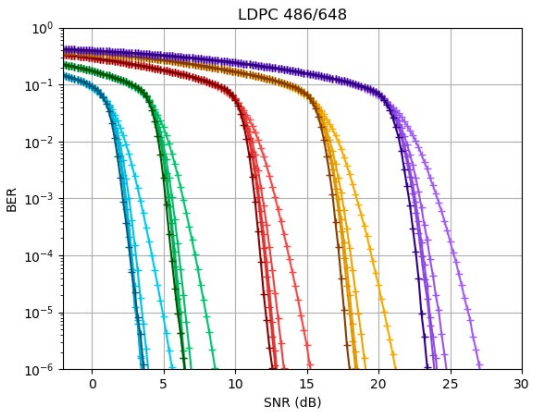
- **Decoding**
  - Early stopping criterion
  - Configurable amount of LDPC decoding iteration
  - 5G-NR de-rate matching & chase Combining
  - CRC decoding
- **Encoding**
  - Filler bits insertion/removal
  - Support 5G-NR rate matching and modulation schemes
  - CRC Encoding

{applications} :

- 5G-NR: 3GPP TS 38.212 Release 15
- WiMAX 802.16m
- Wi-Gig 802.11ad
- WPAN 802.15.3c
- WLAN 802.11n, 802.11ac

{benefits} :

- **Throughput of up to 1.6 Gbps @250MHz in both directions**
- **Available for FPGAs**
- **Compact size: <40kLUT for full 5G-NR compatibility**
- **Avalon & AXI4-stream interfaces**



- Wi-Fi BER performances for BPSK to 256QAM constellations and variable iterations
- Measurements on target
- 5G-NR FEC performance data available upon request

{**about b<>com**}:

A technology pioneer and provider for companies that want to digitally boost their competitive edge, b<>com addresses several industries: culture & creation, digital infrastructures, health, defence and industry 4.0. Its laboratories bring together talented people from a variety of disciplines and cultures in areas like artificial intelligence, immersive video and audio, content protection, 5G networks, the Internet of Things, and cognitive technologies.
b<>com's researchers and engineers, drawn from the ranks of industry and academia, work at its Rennes campus and at its sites in Paris, Brest, and Lannion.
Thanks to its world-class engineering team, its technology platforms and its unique mix of scientific and industrial knowhow, b<>com offers its clients technology solutions that give them invaluable competitive edge.

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