

K-Best MIMO Decoder IP Core Available For Immediate Integration From Global IP Core

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the channel estimation matrix. The inputs to the MIMO Decoder are the estimated channel matrix and the received vector of symbols. Since the transmitted symbols could be pre-coded, some processing may be needed (optional) at the beginning of the detection. The QR decomposition is performed

in preparation for the K-Best decoding. The outputs of the QR decomposition and are fed to the K-Best decoder.

Additional features include:

- Includes QR Decomposition, Dynamic scale and K-best Decoder
- Fixed Depth K-Best Decoder (K=16)
- Achieves close-to ML BER performance
- Supports synchronized streams with different QAM (from BPSK to 64 QAM) dependent on MIMO mode
- Supports square and non-square QAM
- Supports OFDM based systems with different Space Time Coding (STC)
- Soft input soft output
- Supports (MIMO 2X2) or (MIMO 3X3) or (MIMO 4X4), selectable during run time

Related IP Core Products:

- MIMO systems
- Wi-Fi IEEE 802.11n/ac
- WiMAX 802.16e
- LTE standard
- RFID
- DVB-NGH

Please contact us for more information at info@global-ipc.com or check out our product portfolio at www.global-ipc.com

About Global IP Core Sales

Global IP Core Sales® was founded in 2021 and provides state-of-the-art IP Cores for the Semiconductor market. The majority of our products are silicon proven and can be seamlessly implemented into FPGA and ASIC technologies. Global IP Core Sales® will assist you with your IP Core and integration needs. Our mission is to grow your bottom line.