



Description of Blocks:

SI	Block Name	Description
1	Random Integer	Random Bit Generator - Simulink Built In Block
2	Encoder 2	Convolutional Encoder Rate 1/3 - Coded Block
3	Interleaver 2	Convolutional Interleaver - Coded Block
4	Mary Converter1	Mapping bits to M-ary symbols - Coded Block
5	QAMmodulator	Mapping M-ary symbols to QAM Inphase & Quadrature symbols - Coded Block
6	S_PT1	Serial to Parallel Tx: Mapping a set of serial QAM Inphase & Quadrature symbols into a parallel complex conjugate symmetric symbol group - Coded Block
7	MATLAB Function - BRO	Function for Bit Reverse Ordering the input to the IDFT block which is a Decimation In Frequency based Radix algorithm. - Coded in MATLAB (not a built-in Matlab function, Simulink does not show the name of a Matlab function included in its model)
8	IDFT	IFFT block for generating the real time domain OFDM signal, based on Radix 2 DIF algorithm - Coded Block.
9	Data Expansion	Duplicates the OFDM samples to guard against ISI in the channel - Coded Block
10	P_ST	Parallel to Serial Tx: Converts the parallel OFDM samples into serial for transmission - Coded Block
11	SSGenerator	Generates the short spreading sequence - Coded Block
12	DPM	Discrete Product Modulator – Spreading the OFDM signal by a user sequence - Coded Block.
13	Gaussian	Gaussian noise generator - Simulink Built In Block
14	S_PR1	Serial to Parallel Rx: Converts the serial OFDM samples into a parallel sample group for detection - Coded Block
15	Averager	Removes the guard against ISI to obtain independent OFDM samples - Coded Block.
16	DFT1	FFT block for converting the real time domain OFDM signal into complex conjugate symmetric symbol group based on Radix 2 Decimation In Time algorithm - Coded Block.
17	P_SR	Parallel to Serial Rx: Mapping a parallel complex conjugate symmetric symbol group into a set of serial QAM Inphase & Quadrature symbols - Coded Block
18	QAMdemodulator	Mapping QAM Inphase & Quadrature symbols to M-ary symbols - Coded Block
19	Mux	Mapping M-ary symbols to bits - Coded Block
20	Deinterleaver	Convolutional Deinterleaver - Coded Block
21	Summer	Block that adds the input signals - Coded Block
22	Time	Block used for data display - Simulink Built In Block