Hamming Code ECC, 1bit correction, 2bit detection

```
                    v
Message 'n'   ┌──────────┐   Output 'n'   ┌──────────────┐
bits ───────► │ Encoder  │── +ECC bits ──►│   Channel    │────►
              └──────────┘                └──────────────┘

Channel 'n'+  ┌──────────┐   Corrected
ECC bits ───► │ Decoder  │── 'n' bits
              └──────────┘
```
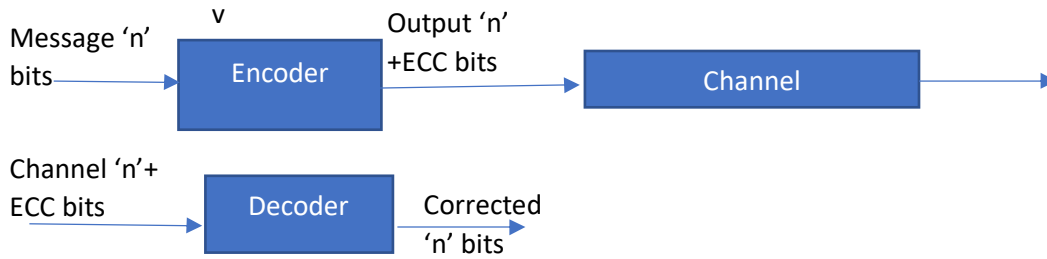
Hamming Code ECC has:

No iterative feedback in pipeline.

Encoder:
> The input message bit width is programmable when RTL is generated. The Encoder adds ECC bits to the message in systematic way.

Decoder:
> The decoder takes in message bits and ECC bits with some bits getting corrupted due to channel errors. The Hamming Code ECC will correct 1 bit error and detect 2 bit errors. It indicates if there was an uncorrectable error, and corrects the data on 1 bit error

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