

# **TETRA CTC encoder Product brief**

**TurboBest**

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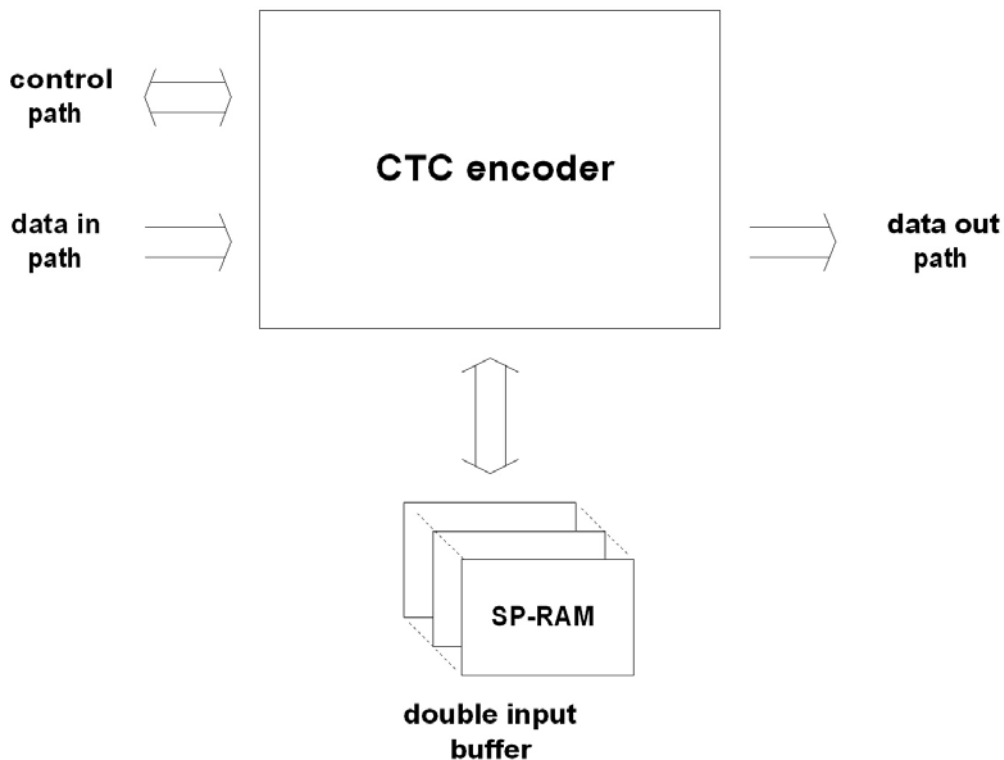
## 1. Introduction

The TETRA CTC decoder designed to meet the TETRA (Terrestrial Trunked Radio) and TEDS (TETRA Enhanced Data Service) specification [\[Ref 1\]](#).

CTC encoder and decoder enable an extremely effective way of transmitting data reliably over noisy data channels.

## 2. Block diagram

Below is the CTC encoder block diagram.



\* The CTC encoder does not have an output buffer, the encoded data is placed directly on the encoder output interface

Figure 1 - CTC encoder block diagram

## 3. Features

- Implements the TETRA specification [\[Ref 1\]](#)
- Up to 6114 bits block size range supported.
- Core contains the full interleaver
- Matlab bit exact model is available.

## 4. Throughput

The encoder supports throughputs equal to the clock frequency.

## 5. Ordering information

For more information please contact us at [info@turbobest.com](mailto:info@turbobest.com)

You can visit our Web site at <http://www.turbobest.com>

We are offering hardware and software free evaluations.

## 6. References

1. ETSI, “Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 2: Air Interface (AI),” ETSI EN 300 392–2 V3.4.1, (2010-08).