

# Module Glossary

This module covers the following topics.

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- Major parameters needed to consider in the design of an ALU
- Serial/Parallel/Functional ALU
- How to speed up a functional ALU
- Fast Addition
  - Carry Lookahead
  - Carry select
- Fast Multiplication
  - Booth's Algorithm
  - Reduction of Summands
  - Iterative method
  - Hurson's Scheme
  - Tree Adder
  - Column Compression
- Fast Division
  - Restoring
  - Non-restoring
  - SRT method
  - Divisor Reciprocation
  - Multiplicative Division