

# Tachyum<sup>®</sup> Prodigy

The World's First Universal Processor

## PRODUCT BRIEF

## Tachyum Prodigy<sup>®</sup> TPU IoT/Edge Licensable Hardware IP

Tachyum's Prodigy is the first Universal Processor combining General Purpose Processors, High Performance Computing (HPC), Artificial Intelligence (AI), Deep Machine Learning, Explainable AI, Bio AI, and other AI disciplines with a single chip. With the tremendous growth of the AI chipset market for edge inference, Tachyum TPU (Tachyum Processing Unit) is positioned to expand the unique value proposition of its Tachyum Prodigy based training to its TPU AI Inference Engine, as a licensable core. That will allow IoT and Edge developers take full advantage of Tachyum Prodigy datacenter trained AI to make IoT/Edge devices intelligent through TPU IP.

### KEY FEATURES

#### Specifications

- TPU AI/ML Inference IP Architecture

#### Simulators

- Architectural transactional simulator
- Cycle accurate simulator

#### Tools Support

- Assembler
- Linker
- Debugger
- Loader

#### Compilers Support

- C/C++ compiler
- Fortran compiler
- TensorFlow
- PyTorch

#### Operating System

- Linux

#### Hardware Licensable IP

- RTL in Verilog
- UVM Testbench
- Synthesis constraints



**A single processor** that delivers industry leading performance.



[www.tachyum.com](http://www.tachyum.com)



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