Points of Contact

Project Manager	Olivia Davis
Product Manager	Ava Martinez
Project Owner	William Turner
Application Owner	Sophia King
Solution Architect	Dinesh Kumar

Funding

Years	Amount
2021	$383,939
2022	$1,230,300
2024	$350,434
2026	1.4 Million

Project Versioning

Name	Version	Description	Date
Tom Cruise	1.0	Initial version of the project.	31/12/2021
Mia Patel	1.1	Improved version with additional features.	01/09/2022
Benjamin Young	1.2	Version with performance enhancements.	26/06/2024
George Williams	1.3	Latest version with bug fixes and updates.	17/11/2026

Specifications Overview

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1. Essentials

Product Collection	Intel Atom® Processor C Series
Code Name	Products formerly Parker Ridge
Vertical Segment	Server
Processor Number	C5115
Lithography	10 nm

2. CPU Specifications

The processor features 4 Efficient-cores and supports a total of 4 threads. It operates at a base frequency of 2.80 GHz, with a cache size of 9 MB. Notably, this processor has no UPI or QPI links, which contributes to its lower thermal design power (TDP) of 43 watts, making it suitable for energy-efficient applications.

3. Supplemental Information

- **Marketing Status**: Launched
- **Launch Date**: Q2'22
- **Embedded Options Available**: Yes
- **Use Conditions**: Communications Commercial Temp

4. Memory Specifications

- **Max Memory Size (dependent on memory type)**: 256 GB
- **Memory Types**: DDR4
- **Maximum Memory Speed**: 2933 MHz
- **Max # of Memory Channels**: 2
- **ECC Memory Supported**: Yes

5. Expansion Options

- **Scalability**: 1S Only
- **PCI Express Revision**: 3.0
- **Microprocessor PCIe Revision**: Gen 3
- **Chipset / PCH PCIe Revision**: Gen 3
- **PCI Express Configurations**: x4, x8, x16
- **Max # of PCI Express Lanes**: 32

6. I/O Specifications

- **# of USB Ports**: 8
- **USB Configuration**: 4x USB 2.0, 4x USB 3.0
- **USB Revision**: 2.0, 3.0
- **Total # of SATA Ports**: 16
- **Integrated LAN**: No
- **Integrated IDE**: No
- **General Purpose IO**: Yes
- **UART**: 3

7. Package Specifications

- **Sockets Supported**: FCBGA2106
- **Max CPU Configuration**: 1
- **Package Size**: 47.5 mm x 47.5 mm

8. Advanced Technologies

- **Intel® Resource Director Technology (Intel® RDT)**: Yes
- **Intel® Optane™ Memory Supported**: No
- **Intel® Thermal Velocity Boost**: No
- **Intel® Turbo Boost Max Technology 3.0**: No
- **Intel® Hyper-Threading Technology**: No
- **Intel® 64**: Yes
- **Instruction Set**: 64-bit
- **Instruction Set Extensions**: Intel® SSE4.2
- **Idle States**: Yes
- **Enhanced Intel SpeedStep® Technology**: Yes
- **Integrated Intel® QuickAssist Technology**: Yes
- **Intel® Volume Management Device (VMD)**: No

9. Security & Reliability

- **Intel® AES New Instructions**: Yes
- **Secure Key**: Yes
- **Intel® Software Guard Extensions (Intel® SGX)**: No
- **Intel® Trusted Execution Technology**: Yes

- **Execute Disable Bit**: Yes
- **Intel® Boot Guard**: Yes
- **Intel® Virtualization Technology (VT-x)**: Yes
- **Intel® Virtualization Technology for Directed I/O (VT-d)**: Yes

10. Associated Systems

System Name	Acronym	Directional	Description
Acer Aspire 5	ACP	Both	Budget-friendly laptop for students
Microsoft Surface Laptop 4	MSL	Pull	Sleek and lightweight ultrabook
Razer Blade 15	RBL	Bidirectional	High-end gaming laptop with RGB lighting
Lenovo Yoga 7i	LNY	Push	Versatile 2-in-1 laptop for creatives

11. Tech Stack

Laptop Brand	Processor	Version	Usage
Microsoft	Intel Core i7-1185G7	12th Gen	Professional tasks and presentations
Razer	Intel Core i9-11900H	11th Gen	Gaming and high-performance applications

12. Compliance

Standard	Compliance Status
HIPPA	No
PCI	Yes