USING CUTTING-EDGE TECHNOLOGY,
SixtyOneC OFFERS A SMALLER, ENERGY EFFICIENT DATA CENTER
WHY SIXTYONEC

A TEAM OF TECHNOLOGY FOCUSED INDIVIDUALS DEVELOPING ENERGY-EFFICIENT COOLING SOLUTIONS

DRIVEN BY A PASSION TO INNOVATE AND A DEDICATION TO CREATE A NEW WAY FORWARD

SixtyOneC IS REDESIGNING THE DATA CENTER
THE PROBLEM
All electrical data center equipment requires cooling.

Most data centers are INEFFICIENT, with up to 50% of energy costs dedicated to COOLING.
By merging HIGH PERFORMANCE COMPUTING with the most power-efficient IMMERSION COOLING STRATEGY available, we dramatically INCREASE ROI.
IMMERSION COOLING
**THE SOLUTION**

- An engineered server container filled with non-conductive fluid.
- Reduce cooling costs by UP TO 97%
- A closed loop system with greater efficiencies that eliminates the need for expensive cooling equipment.
- A SixtyOneC enclosure can be installed just about anywhere, freeing you from maintaining dedicated spaces.
- A 10x reduction in square footage. MORE POWER. SMALLER SPACE.

Reduce cooling costs by UP TO 97%
The SixtyOneC design is more efficient, reducing cooling costs by **UP TO 97%**.

It allows more computing power in a smaller space, resulting in a **10x** reduction in square footage.
THE DETAILS
By using **IMMERSION COOLING**, our improved power efficiency increases density, compute performance and revenues.

**ADVANTAGES OF IMMERSION COOLING**

Computer hardware is submerged into a dielectric fluid engineered with a low boiling point. Warm vapor rises to a condenser passively transferring heat away from the equipment.

No Heat-sinks or fans are required.

**CIRCULATION OCCURS PASSIVELY WITHOUT EXPENDING EXTRA ENERGY**

**HIGHER EFFICIENCY AND RELIABILITY**
- Immersion fluid 4,000x more efficient at removing heat than air
- Innovative design reduces moving parts
- Reduced capital and operational expenses
- Improves hardware performance
- Ultra high density compute footprint

**VERSATILE DESIGN**
- Fits any form, size or shape of electronic components or boards
- Environmentally-friendly - extremely clean
- Non-flammable, inherent fire protection
- No raised floors or HVAC required
- HPC environment can be set up in any climate
APPLICATIONS
Anywhere a data center would be built, SixtyOneC will offer a **MORE COMPACT, MORE DENSE, MORE COST EFFECTIVE SOLUTION**.

SixtyOneC is less expensive to build, less expensive to run, and less expensive to maintain; perfect for new data center builds and retrofitting scenarios.

**HIGH PERFORMANCE COMPUTING**

**UNDERSTANDING HIGH PERFORMANCE COMPUTING**

**POWER MANAGEMENT**
We improve power management from transformer to rack by

92% - 97%

**PETAFLOP DENSITY**
A petaflop (Pf) is measure of a computer’s processing speed. The higher the Pf, the higher the processing speed.

A quadrillion floating point operations per second.
Our design plan aims to push the boundaries of petaflop density.

Each rack in our data center can deliver

3 - 6 Pf

**POWER USAGE EFFECTIVENESS (PUE)**
Ratio of how efficiently a data center uses energy - how much energy is used by the computing equipment versus cooling and other overhead.

The lower the PUE, the more energy efficient it is.

Our PUE will be

1.02 - 1.05
(typical data center PUE is 1.8-2.1)
As blockchain operations become more complex and demanding, energy costs can exceed profitable parameters both in mining and blockchain transaction maintenance.

By reducing cooling energy costs by up to 97%,

SixtyOneC restores profitability and reliability to blockchain technologies.
SixtyOneC immersion cooled solutions enables significantly higher performance per server.

Drastically reducing the amount of hardware required in a data center.

This not only lowers the cost of ongoing operations, but also the initial cost of hardware deployment.
Edge computing brings memory and computing power closer to the location where it is needed.
WHO WE ARE

DIETER MORGAN  
Chief Executive Officer, Founder

Dieter Morgan has over 20 years of experience in the IT industry, working as a Network Administrator for companies such as Intrawest, Alexander Holburn, Beaudin and Lang. He has built and supported large scale data centers for PNI Digital media and more recently iQ Metrix. After working for Longview Systems as a managed services provider, he started his own boutique IT consulting services firm, with clients such as Fluff Designs, and Best Films Services. Dieter holds several technical certifications from Microsoft, Cisco and CompTia.

ALEX P. VELLA  
Chief Operations Officer

Alex P. Vella is an experienced technology executive with over 20 years of strategic leadership in multi-national corporations, government agencies, and high-tech startups. He has served as a senior advisor to a number of Blockchain startups, and provided senior project management to Cisco Systems projects across a range of network types as well as advanced collaborative application systems. Alex received a BS in Management from the University of LaVerne and is PMP certified by the Project Management Institute (PMI) along with serving in both the U.S. Air Force Space and Telecommunications Command.

KEVAN MATHESON  
Corporate Development

Kevan Matheson holds a Bachelor of Commerce, with specializations in International Business and Entrepreneurship. He was a former member of RBC’s Institutional Asset Management team, with a focus on account management, corporate strategy, blockchain application research, and big data analytics. He has worked in cryptocurrency mining, venture capital, carbon trading, data centers, and has authored a book on cryptocurrency. A sought-after speaker, his knowledge of technology and experience from institutional finance helps market SixtyOneC, while helping to build out corporate strategy.

ORRETT MORGAN  
Co-founder CTO

Orrett has over 20 years in the IT industry. Before joining the British Columbia Institute of Technology (BCIT), he was a System Administrator for Whitewater West Industries and Lang Michener (McMillan LLP) in Vancouver. Starting as an instructor at BCIT, Vancouver, he was promoted to the Program Head for the High Tech Professional Department. He pioneered the adoption of a blended learning model, CompTIA, designed for modern learners. He earned a Masters Degree from Royal Roads University and technical certifications from Microsoft and CompTIA.

JOE BUSUTTIL  
Senior Engineering Advisor

Results-producing design and management career spanning 40 years, demonstrating year-over-year improvements in engineering, quality, costs and delivery functions. Strong and decisive leader with excellent analytical, organizational and team building skills. Focus on high-quality standards and bottom line profit improvement. Utilized lean manufacturing, 5S theory for housekeeping and implemented (JIT) Just In Time manufacturing environments. Worked in the Automotive, Aerospace and Energy Sectors.

KEVAN MATHESON  
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IVAN ZIVKOVIC  
Manufacturing Advisor

Integrated Solutions Lead at AdvanTec Industrial  
Focused on growing the contract manufacturing portfolio within the AdvanTec Global Innovations (AGI) industrial division. Placed in a unique position to drive vertical integration of AGI-Industrial through strategic business development, technology acquisitions, and strategic partnerships. Assists ownership in assessing opportunities for growth both internally (organizational) and externally (business development).
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