NeoCompute Technologies - Product & Company Overview

1. Company Overview

NeoCompute Technologies is a next-generation AI hardware and software company focused on high-performance edge and cloud computing solutions. Established in 2021, our mission is to accelerate AI adoption through scalable, efficient, and secure infrastructure platforms.

Our product suite includes:
- NeoEdge: AI inference hardware optimized for edge deployment.
- NeoCloud: Scalable cloud-native AI training and deployment platform.
- NeoSecure: Integrated security modules for data integrity and regulatory compliance.

NeoCompute products are used in finance, healthcare, autonomous vehicles, and smart cities, supporting both private and public sector clients.

2. Contact Information

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3. Technical Specifications

NeoEdge AI Module:
- Processor: 8-core ARMv9 AI-optimized SoC
- TPU: Custom NeoTensorX v2.1 (512 TOPS INT8 / 128 TFLOPS FP16)
- Memory: 16GB LPDDR5 RAM, 512GB NVMe SSD
- Connectivity: 5G, Wi-Fi 6E, Bluetooth 5.3, Ethernet
- Power: 12V DC, Avg. Power: 18W
- OS: NeoLinux (Ubuntu-based, container ready)
- Certifications: CE, FCC, ISO 27001 compliant

NeoCloud Training Cluster:
- CPU: AMD EPYC 9654 96-core
- GPU: 8x NVIDIA H100 Tensor Core GPUs
- Memory: 2TB DDR5 ECC
- Storage: 240TB NVMe RAID, 100TB S3 backup
- Networking: 100GbE + InfiniBand HDR
- Software: Kubernetes, Ray, PyTorch, TensorFlow, Docker
- SLA: 99.99% Uptime, 24/7 Global Support

4. Compliance and Security

NeoCompute follows strict compliance frameworks to meet enterprise and government standards. Our systems are:
- SOC 2 Type II audited
- ISO/IEC 27001 certified
- HIPAA compliant (Healthcare clients)
- GDPR-ready for European operations
- Zero-trust architecture with TPM-based secure boot, full-disk encryption, and RBAC/ABAC access controls

5. Case Study: CityGrid Smart Infrastructure

CityGrid, a leading smart city integrator, deployed NeoEdge modules across a metro network of 400 intersections. The system processes 4K video feeds for traffic prediction and anomaly detection with <35ms latency. Integration with NeoCloud allows continuous model retraining using federated learning, improving accuracy by 18% over six months.