



**3.5X** faster data  
throughput compared to the  
system with NVMe SSDs.<sup>1</sup>

# Preferred Networks Launches Next-Gen 'MN-3' Deep Learning Supercomputer

Preferred Networks (PFN) develops artificial intelligence solutions for industrial and domestic robotics, Industrial Internet of Things (IIoT), manufacturing systems and other industries. Their latest High Performance Computing (HPC) system, MN-3, integrates a custom-designed deep learning accelerator. Traditional SSDs could not meet the I/O throughput requirements of the new architecture. PFN turned to Supermicro's SuperServer hardware with 2nd Generation Intel® Xeon® Scalable processors and Intel® Optane™ persistent memory. This enabled a balanced node with fast access and high capacity for training data. PFN also developed code and a custom library to take advantage of the large capacity, low latency and byte-addressable features of Intel Optane PMem.

#### Products and Solutions

[2nd Generation Intel® Xeon® Scalable Processors](#)  
[Intel® Optane™ Persistent Memory](#)

#### Industry

Computer Software

#### Organization Size

101–250

#### Country

Japan

#### Partners

[Supermicro](#)

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