

# JANUS SECURE COMPUTER

## Product Brief

### A Hardware Approach To Endpoint Security

Personal computers are being used for work-related computing, but personal computers were not designed with security as a primary factor, and have proven to be ineffective at stopping cyber attacks. Janus Technologies introduces an enterprise-class computer that was engineered and manufactured with security as its primary focus. The Janus Secure Computer features reimagined client hardware and a new platform that secures the endpoint at the hardware level, making it more secure and better managed than other computers on the market today.



### Hardware-Defined Security Perimeter

The Janus Security Processor Unit handles security functions using a dedicated processor chip, and creates a hardware-defined security perimeter inside the computer, which adds another layer of protection above and beyond the corporate software-defined perimeter.

### Forensic Analysis

Data transiting the I/O is processed by the SPU and routed to the Janus Management System for analysis with the robust forensic analysis tools inside the Janus Management System.

The SPU captures every keystroke and mouse movement made on the Janus Secure Computer. The SPU also captures video from the desktop display and webcam, and audio from the microphone and headphones. All of this data is placed into an easy-to-navigate visual interface. Administrators can view all activity from each Janus Secure Computer in real time or on-demand.

### I/O Security

The SPU isolates, monitors, records, firewalls and encrypts every I/O interface:

- HDMI
- USB
- Networking
- Audio
- SATA

### Security Processor Unit

The heart of the Janus Secure Computer is a dedicated security processor chip invented and patented by Janus Technologies called the Security Processor Unit (SPU™).

The SPU revolutionizes endpoint security by handling security tasks in hardware, instead of in software, thereby creating a hardware-defined security perimeter within the endpoint device.



The SPU is responsible for the security features of the Janus Secure Computer such as:

- Trusted Boot
- I/O Security
- Activity Monitoring
- Data Encryption
- USB Port Management
- Display Watermarking
- Remote Management

Viruses and malware that come in from the I/O are blocked by the SPU and prevented from entering the CPU.

The SPU protects the CPU from infection and snooping.

If employees connect infected peripheral devices to the Janus Secure Computer, the infection will not pass into the computer or through the network. If snoopers make it through the corporate network software perimeter, they will not be able to pass through the hardware-defined perimeter and access data on the CPU.

## Root of Trust

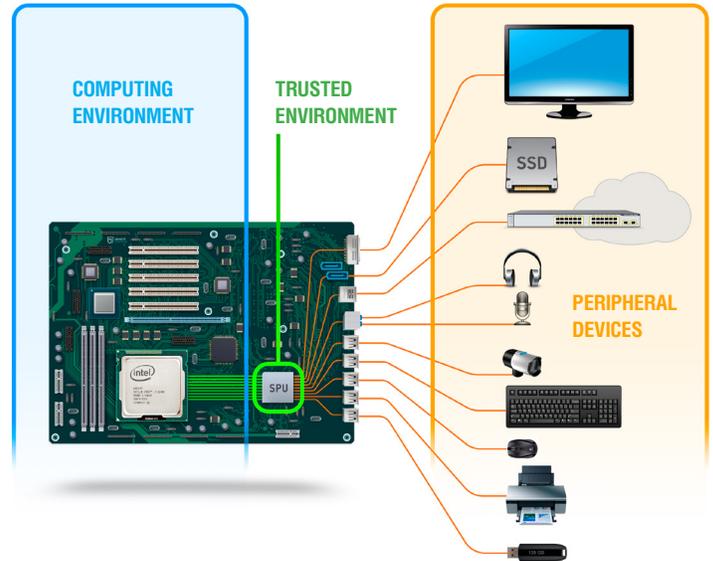
The SPU serves as a root of trust for a secure computer boot, BIOS authentication and upgrade, networking services (DNS) and Certificate Authority.

## Transparency

Data processing in the SPU is transparent to a host processor (e.g. Intel i5 or i7); there is no need to install additional software or drivers. Data processing in the SPU does not impact the computer's performance, and in some cases the computer's performance improves, because of offloading some CPU-intensive tasks to hardware accelerators of the SPU. Separate memory in the SPU provides for secure onboard processing that is inaccessible to host applications or malware.

## Features

- Network firewalling and VPN
- Virus search
- Display watermarking and recording
- Multiple OS: Windows, Linux
- Policy driven management
- Data encryption for network and storage devices
- Gatekeeping – SPU prevents unauthorized access
- Backup and restore – up to 8 hard disk snapshots
- Onscreen display and management of security features
- Collaboration suite
- Janus Management System
- Activity monitoring and recording with Janus Management System
- Capture and storage of all user activity



## Technical Specifications

Windows 7 Ultimate N 64-bit

Intel® Core™ i5-4570S CPU @ 2.90GHz (4 CPUs)

8GB PC3-12800 DDR3-1600 SDRAM

Seagate 7200RPM SATA drive

2 TB Janus Technologies SATA device

Intel® HD Graphics 4600

Wireless LAN 802.11b/g/n

2 Front, 3 Rear USB 2.0 Ports

PCIe GBE Family Controller

350W Power Supply

Janus Technologies keyboard and mouse

Janus Secure Computers are available now. They can be purchased as stand-alone units or as part of an enterprise solution.