

[ORWL]

MEET ORWL

- Tamper Proof Secure Workstation
- Two Factor Authentication
- User Presence Control

- Self Encrypting SSD
- Enable Single Sign-On
- Motion Sensor



- Designed for Windows and Linux
- Side Channel Protection
- Ready for Virtualization



[ORWL], A POWERFUL WORKSTATION.

[ORWL] is a new category of secure workstation bringing you the utmost security technologies to protect your data. It requires both a physical key and a password to be used. [ORWL] secure workstation is a secure endpoint to control access to your cloud services, as part of a secure network. It can also replace any computer thanks to its built-in security.

Privacy is at the Core of Security

Privacy consists in the combination of privacy of data, privacy of communication and privacy in society. Thanks to its security-focused design, [ORWL] take care of all aspects of privacy: its SSD hard disk is encrypted, its communication ports are controlled and will be shut down in response to any attack, and each [ORWL] is unique.

Security is as Good as the Weakest Link in the Chain

Thanks to its hardware architecture, [ORWL] brings state-of-the-art authentication and high-end security technologies to the secure workstation. It delivers physical, bank-level information security for everyone.

44 IF YOU SPEND MORE ON COFFEE THAN ON IT SECURITY, YOU WILL BE HACKED. WHAT'S MORE, YOU DESERVE TO BE HACKED. ******

White House Cybersecurity Advisor, Richard Clarke

[ORWL] adds two-factor boot authentication to a compact, portable secure workstation. That means you need both a physical key and a password just to power [ORWL] on. Keyfobs are generated with a secure procedure making each [ORWL] unique. They are not duplicated.

A secure microcontroller subsystem controls the power. You can't hack what is not on.

A New Category of Secure Workstation

[ORWL] comes with two unique wireless access keyfobs that are required to switch on the device and boot. [ORWL] embedded security controls all accesses: Networks, Bluetooth, Wifi, USB ports, HDMI,... [ORWL] will lock if its authorized user is out of a 10 meter range and will shut down if moved while unattended.

If any of the six external tamper sensor is triggered, [ORWL] will erase the SSD encryption key, erase all access credentials and prevent the unit from restarting. [ORWL] has been designed with security and reliability in mind. Its MTBF is higher than a million hours.

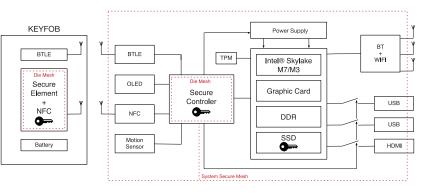
A Powerful Secure Workstation

[ORWL] includes a PC base and runs the latest X86 Intel[®] processor architecture 'Skylake' Y Core[™] M. [ORWL] is available in 2GB or 8GB DDR3 and 120GB to 480GB SSD drive. Two controlled USB ports will connect power, keyboard and mouse. A micro-HDMI output will display up to 4k video with audio.

[ORWL] provides authentication and encryption thanks to its hardware accelerator. [ORWL] integrates a secure IEEE 802.11AC 2×2 Dual Band, and BT 4.2, access point, so that you can connect to other devices and networks wirelessly.

[ORWL] supports Bare Metal virtualization, thanks to Intel® VT-x and IOMMU VT-d. You can run a VM-based OS. [ORWL] is designed according to Open Source principles making its components available to third parties.

[ORWL] benefits from remote IT support allowing to securely bring assistance to IT managers. [ORWL] has been designed with security and reliability in mind. Its MTBF is higher than a million hours.



TECHNICAL SPECIFICATIONS

Intel [®] Skylake Y	Includes Intel [®] HD graphics 515 300/1000 MHz
Core™ M5 6Y54	 2 cores/4 threads 900 MHz, 4MB L3 cache 2 GHz single core turbo, 2.2 GHz dual core Turbo, includes VT-d, VT-x and AES-NI
Core™ M7 6Y75	 2 cores/4 threads 1.2GHz, 4MB L3 cache 3.10GHz single core turbo, 2.9GHz dual core Turbo, includes Intel VPro, TXT, VT-d, VT-x and AES-NI
LPDDR3	 8GB @1600 MHz, Max Bandwidth 25GB/s
SSD	• SSD 120GB to 480GB • SATA Gen.3, 6Gbps • NGFF-2280, M.2 type • MTBF: ≥1 million hours
WLAN	 Intel[®] Wireless IEEE 802.11 a/b/g/n/ac, Dual band, 2×2 Dual Mode Bluetooth® 2.1, 2.1 + EDR, 3.0, 4.2 (BLE)
ТРМ	Compliant to TPM 2.0 Rev. 0.9x FW "upgradable" to TPM 2.0 TIS 1.3
Accelerometer	Six-Axis (Gyro + Accelerometer) MEMS Motion Tracking Device, InvenSense MPU-6500
Secure element	 Secure Boot Loader with Public Key Authentication AES, DES and SHA Hardware Accelerators Modulo Arithmetic Hardware Accelerator (MAA) Supporting RSA, DSA and ECDSA Hardware True Random-Number Generator Die Shield with Dynamic Fault Detection 6 External Tamper Sensors with Independent Random Dynamic BIT Patterns circulated for protection 256-Bit Flip-Flop-Based gateway providing on the fly encryption and decryption of data for Battery-Backup SRAM. Destructive reset signal to reset of this flip flop on internal or external tamper Frequency, Temperature and Voltage Tamper Monitor Real-Time Clock
NFC reader	Read/write mode supporting ISO/IEC 14443A/MIFARE Read/write mode supporting ISO/IEC 14443B
Secure Display	1.5 inch White OLED display
Ports	 2× USB Type C, supporting power delivery and Display Port (DP) output 1× Micro HDMI 1.4, up to 4K resolution
Keyfob	Each unit comes with two NFC keyfobs to be paired by the owner Additional keys can be purchased
BT Beacon	BLE 4.1 Beacon with pedometer for proximity estimation and protection
NFC + Secure element	 ISO/IEC 14443 Types A and B, ECMA 340 (NFCIP-1), in Card Emulation mode Switching between operating modes and RF modes NCI functions for Device Host link
Size	• Ø128 mm × 31.4 mm (Glass version)
In the box	 1× ORWL, 2× KEYS, HDMI cable, power supply, USB cable

