



# SUPERFREQ

High performance and maximum reliability  
for high frequency trading and low latency environments

10 Cores @ 4.9GHz



The BIOS IT SuperFreq is an overclocked, single socket server delivering high performance and maximum reliability, tailor made for high frequency trading and low latency environments.

Offering incredible performance for HFT workloads, our team of in-house developers have optimised and enhanced SuperFreq to deliver extreme algorithm acceleration. Equipped with a closed loop, maintenance-free liquid cooling module, the SuperFreq optimises thermal distribution internally and features motherboard circuitry modifications, which all help to facilitate lower latency and jitter. The system is designed for co-location and features enterprise-class server management capabilities.

Our in house engineering team ensures that each SuperFreq can be tailor-made and optimised in line with your specific workloads, providing performance benefits to equip you with a competitive edge. At BIOS IT, we recognize that it is not a “one fits all” market, and our hybrid approach to support allows us to offer bespoke SLAs that can include guaranteed fixes within minimal timeframes, as well as access to global spares and our world-class engineering teams. BIOS IT can provide consultative advice and ultimately work with you to ensure our customized solution and accompanying SLA, will successfully and reliably meet all of your requirements.

#### ENTERPRISE STANDARD PRODUCT & SUPPORT

BIOS IT understands the need for global deployments within our customer’s mission critical environments. Therefore, we’ve ensured that SuperFreq is IPMI 2.0 compliant and boasts full server remote manageability. Remote support teams can monitor the solution including temperature and voltage readings, as well as being able to access the BIOS for further settings optimisations. Designed, manufactured and supported by BIOS IT globally, the SuperFreq specifications can be customised to suit your exact requirements.

#### GET IN TOUCH

##### AMERICAS

1-800-654-BIOS  
123 10th St.  
San Francisco, CA 94103.

##### EMEA

+44 (0) 203 178 6467  
Salisbury House, 29 Finsbury Circus,  
London, EC2M 5QQ

##### APAC

+61 (0)2 9959 1010  
Level 12, 1 Pacific Highway,  
North Sydney, NSW 2060

## SUPERFREQ BENEFITS



INNOVATIVE  
LIQUID COOLING



OVERCLOCKED  
PERFORMANCE



ENTERPRISE  
CLASS



EXTENDED  
BURN IN



FULL WARRANTY  
& SUPPORT

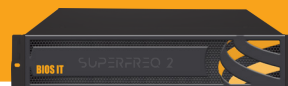


REMOTE  
MANAGEMENT

## KEY FEATURES:

- Intel® X299 Express PCH
- Intel Core i9-9900X @4.9GHz (10C)
- Up to 128GB DDR4 non-ECC, up to 3600MHz
- 4 x PCI-E Low profile expansion slots
- 2x M.2 PCI-E x4 and 2x U.2 PCI-E x4 for NVMe SSD storage
- Out of Band Remote Management (IPMI 2.0) with HTML5 support
- Redundant 1000W (1+1) Titanium Level Power Supply
- International 3 year warranty
- Low latency NIC options
- International 3 year warranty, including 24x7 with 4 hour on-site response

## SUPERFREQ SPECIFICATIONS



FORM FACTOR	2U
CPU	SKYLAKE X REFRESH SERIES
MEMORY	UP TO 128 GB DDR4 NON-ECC @ UP TO 3600 MHZ
NETWORK	SINGLE PORT 1GBE SHARED WITH IPMI SINGLE PORT 10GBASE-T
STORAGE	8 X 3.5" / 2.5" HOT SWAPPABLE SATA / SAS DRIVE BAYS 2 X M.2 & 2 X U.2 PCI-E X4 FOR NVME STORAGE
SUPPORT	GLOBAL SUPPORT UP TO 3 YEARS

CUSTOM CONFIGURATIONS ACROSS CORE COUNT, FORM FACTOR AND SUPPORT ARE ALSO AVAILABLE

*All products and companies referred to herein are trademarks or registered trademarks of their respective companies or mark holders.*

## GET IN TOUCH

### AMERICAS

1-800-654-BIOS  
123 10th St.  
San Francisco, CA 94103.

### EMEA

+44 (0) 203 178 6467  
Salisbury House, 29 Finsbury Circus,  
London, EC2M 5QQ

### APAC

+61 (0)2 9959 1010  
Level 12, 1 Pacific Highway,  
North Sydney, NSW 2060