



Server platform offers client flexibility and scalability with a wide selection of drive types and capacities. Server has support for HDD/SAS/SATA hot swap drives with a maximum of 86,7 TB with 3.5" drives or 184TB with 2.5" configuration

1U Rack Server design that can handle almost any workloads in the software-defined data center. From IT infrastructure workloads to high-performance computing (HPC) to cloud and Big Data.



### **Future defined data center**

MAD TECH delivers cost-effective, reliable and scalable solutions by combining industry-leading technology and the world's best software-defined offerings to manage the life cycle of your data center needs. DS-R2 series platform provides support for data analytics, hybrid cloud, hyperconverged infrastructure, video surveillance, High Performance Computing and much more.

### **Workload-optimized support**

Intel® Optane™ DC Persistent Memory delivers a new, flexible tier of memory designed specifically for data center workloads that offers an unprecedented combination of high capacity, affordability and persistence. This technology will have a significant impact on real-world data center operations: reduction of restart times from minutes down to seconds, 1.2x virtual machine density, dramatically improved data replication with 14x lower latency and 14x higher IOPS, and greater security for persistent data built into hardware.

### **Flexible storage**

Specific design features a choice of drive interface type in the same drive bay: SAS drives, SATA drives, or U.2 NVMe PCIe drives. Freedom to configure some of the bays with PCIe SSDs and still use the remaining bays for capacity SAS drives provides the possibility to upgrade to more PCIe SSDs in the future as needed.



**Technical data**

Form Factor/Height	1U rack server
Processor (max)/Cache (max)	Up to 2 second-generation Intel® Xeon® Platinum processor, up to 205W
Memory	Up to 7.5TB in 24x slots, using 128GB DIMMs; 2666MHz / 2933MHz TruDDR4
Expansion Slots	Up to 4x PCIe 3.0 slots (with two CPUs), including 1x dedicated PCIe for RAID adapter
Drive Bays	Up to 12 bays (includes 4x AnyBay): 3.5": 4x hot-swap SAS/SATA; 2.5": 4x hot-swap AnyBay + 6x hotswap SAS/SATA + 2x rear; or 8x hot-swap SAS/SATA; or 10x hot-swap U.2; plus up to 2x mirrored M.2 boot
HBA/RAID Support	HW RAID (up to 16 ports) with flash cache; up to 16-port HBAs
Security and Availability	TPM 1.2/2.0; PFA; hot-swap/redundant drives, fans, and PSUs; 45°C continuous operation; light path diagnostic LEDs; front-access diagnostics via dedicated USB port
Network Interface	2/4-port 1GbE LOM; 2/4-port 10GbE LOM with Base-T or SFP+; 1x dedicated 1GbE management port
Power	2x hot-swap/redundant: 550W/750W/1100W AC 80 PLUS Platinum; or 750W 80 AC PLUS Titanium

As the requirements for the convenience of infrastructure management grow, the MADTECH company presented its own development, compatible with DS line servers, called iCM.

Madtech iCM (iControl&Monitoring) is an enterprise-class open source distributed monitoring solution.

With the Madtech iC&M tool, you can monitor:

- states of each server: processor speed and load, disk capacity, availability of free space in RAM/ROM;
- network status. We are talking about the availability of nodes from the server, connection speed, ping time;
- the state of the operating system. Here you should indicate both the number and state of processes, as well as the fact that certain programs are in memory;
- states of application programs: the number of active users, the average response speed of a software application, requests to the database management system;
- business metrics are the top level of monitoring. This includes registration of new users, revenue, turnover of funds, number of orders, conversions and other figures that are of interest to business management.

For more information visit our website: <http://www.madtech.ae>