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SR10-FDD

SKU#: ADDC-SR10-FDD

The SR10-FDD is a standard 19" (18" deep) 2U rack drawer incorporating a bare metal VDI (Virtual Desktop Infrastructure) that consolidates up to 10 local desktop computers with your sensitive data. Each local desktop computer consists of a BioDigitalPC® card delivering KVM (Keyboard, Video and Mouse) functionality to remote Zero Clients connected remotely up to 30km through a single secure fiber optic cable with LC connectors.

The SR10-FDD can be secured in a SCIF (Sensitive Compartmented Information Facility) to store sensitive data, while delivering classified information to the remote Zero Clients.

A BioDigitalPC® card is a full x86 quad core (eight threads) computer with up to 16GB of DDR4 memory (32GB coming soon) and up to 1TB of PCIe NVMe SSD storage. Each BioDigitalPC® card has a secure onboard Trusted Platform Module (TPM), providing a FIPS 140-2 Level 3 capable solution.

A simple to use web-based GUI, called ROMware (Remote Operations Management software), is available to the user, providing the ability to monitor and manage power to the system and individual BioDigitalPC® cards.

In addition, the SR10-FDD comes with a front panel 3.5" touch screen display user interface to monitor and control the power to each of the 10 BioDigitalPC® cards. The front panel also includes link LEDs for each of the 30 NICs and a power button.

The SR10-FDD consists of one SR10 module, which includes 10 BioDigitalPC® card slots. Each card has three 1Gb NICs. All 30 NICs are connected to a shared Layer 2 managed switch with two 10Gb SFP+ ports. The rear panel contains the two 10Gb SFP+ ports, an auxiliary 1Gb port, a 10/100 L2 switch management port, a 1Gb ROMware GUI power management port, a RS-232 Layer 2 switch OOB management port, and ten fiber optic LC connectors. The SR10-FDD 2U sized drawer can be extended to expose the entire drawer.

The SR10-FDD can be scaled from 1 to 10 desktop computers over one classified network simply by plugging in a BioDigitalPC card into an available slot. When completely scaled out, the SR10-FDD consolidates 10 BioDigitalPC® cards containing 10 to 40 CPU cores, up to 160GB of DDR4 RAM, and up to 10TB of onboard NVMe SSD storage. Even though the SR10-FDD delivers such an incredible compute power it has an average power consumption of 150W runs at room temperature with no extra cooling.

A remote Zero Client consists of a remote extender (REX), see figure 2, to establish a KVM fiber optic session with the SR10-FDD. The REX uses a 12V power supply and also contains an HDMI output port (dual monitor optional), four USB 2.0 Type-A ports, and a SFP+ fiber optic transceiver receptacle. The REX will work with any off the shelf monitor and keyboard.

Figure 1.1 (Top)

Figure 2.2 Remote extender (REX) front

Figure 2.2 back

Figure 1.2 (Back)

Figure 1.3 (Front)

SPECIFICATIONS

Size	3.5'' Height, 19'' Width, 18'' Depth
Weight	18 lb with 10 BioDigitalPC® cards
Power	AC: 100-240V; single phase

Up to 10 BioDigitalPC® x86 desktop cards:
2-4 CPU cores [4-8 threads] per desktop
8-16GB of DDR4 RAM per desktop (32GB coming soon)
Up to 1TB NVMe SSD onboard storage per desktop

Each SR10 Module includes:
Remote power management Web GUI
(10) BioDigitalPC® Slots
(1) Integrated Layer 2 switch, which includes:
      (2) 10Gb SFP+ connections
      (1) RJ-45 1Gb connection
      (1) RJ-45 1Gb Switch Web GUI connection
      (1) RJ-45 10/100Mbps switch management port

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