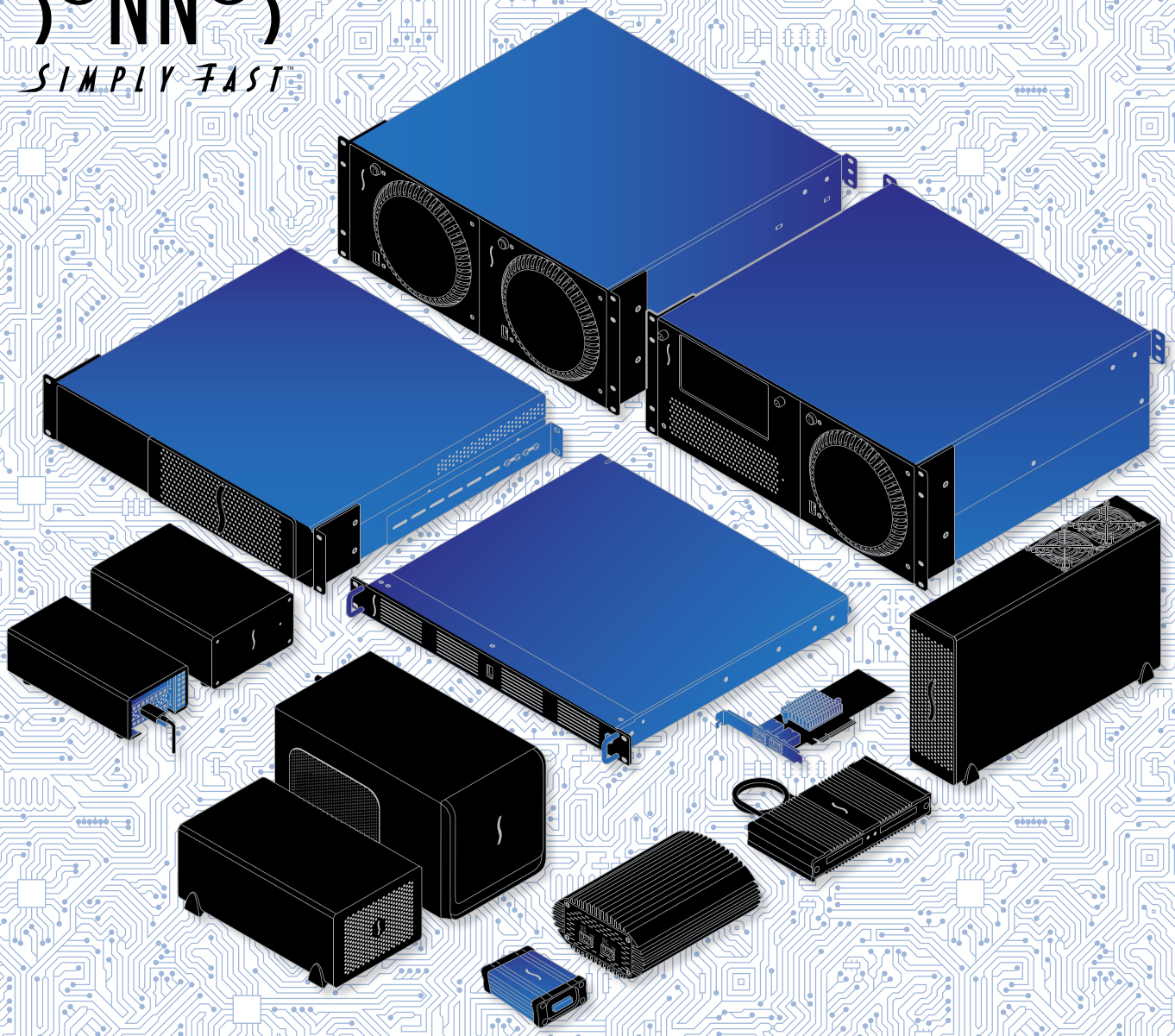
SONNET™

SIMPLY FAST™



PRODUCT CATALOG

Enabling Expansion And High Performance

THUNDERBOLT™

SUMMER 2017

SONNET TECHNOLOGIES

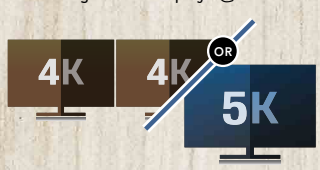
www.sonnettech.com

Echo™ Express Family

Sonnet's industry-leading Thunderbolt-to-PCIe card expansion systems have expanded and enhanced countless pro video and audio workflows onset, on-site, in the edit bay, and in the studio. Enabling the use of high-performance PCIe cards with computers lacking card slots, Sonnet's latest expansion systems with Thunderbolt 3 and PCIe 3.0 slots offer even greater performance than before to support one or more bandwidth-hungry cards, and are available in various sizes for the desktop as well as a 2U rackmount option. Most models are also available with Thunderbolt 2 (and are upgradable to Thunderbolt 3). Whatever your workflow, there's an Echo Express system that will best suit your needs.

Thunderbolt 3 Editions

Thunderbolt 3 Edition Echo Express systems feature 40Gbps Thunderbolt 3 interfaces, which offer double the bandwidth and connectivity of Thunderbolt 2, enabling them to support 4K video I/O cards at high frame rates, and 16Gb FC cards and dual-port 10GbE cards at full performance. With support for the most demanding, highest performance PCIe cards, support for connecting two 4K displays @ 60Hz or one 5K



display @ 60Hz[1], and support for a vast array of Thunderbolt[2] AND USB[3] devices, Thunderbolt 3 technology is a leap forward in every way.

ThunderLok Included

Sonnet includes a ThunderLok Thunderbolt connector retainer clip[4], which slides onto the included Thunderbolt cable, and screws into the Echo chassis to prevent accidental cable disconnections.

Cool Design Outside and In

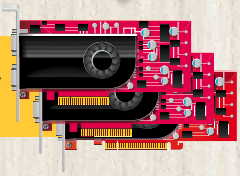
The rugged shell of each Echo Express - Thunderbolt 3 expansion system securely protects the cards inside and helps radiate heat away from them. The airflow path within each system was specially designed to enable temperature-controlled fans to quietly and efficiently cool the installed card, which automatically speed up and slow down smoothly as needed.

Echo Express III-R

3-SLOT RACKMOUNT

The Echo Express III-R supports three full-length (up to 12.28 inches long), full-height, single-width cards. Featuring one x16 plus two x8 PCIe slots, and a built-in 300W universal power supply with 75W auxiliary power connector for cards requiring extra power, the III-R is perfect for users needing to rackmount their gear. Plus, it offers the mounting space for additional storage and media expansion devices when installed in one of Sonnet's Mobile Rack Device Mounting Kits.

Three Full-Height, Full-Length Cards

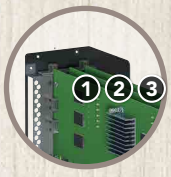


- One x16 plus two x8 PCIe slots; support three full-length (up to 12.28 inches long), full-height, single-width cards, or one double-width card plus one single-width card
- Built-in 300W power supply with 75W auxiliary power connector
- Supports Mobile Rack Device Mounting Kit installation

Echo Express III-D

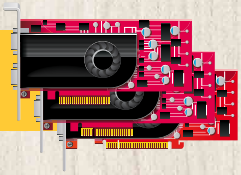
3-SLOT DESKTOP

Except for its enclosure, the Echo Express III-D desktop system is nearly identical to the Echo Express III-R. With the same slots, card support, and power specs, the III-D is perfect for users who need their expansion system to support every size of Thunderbolt-compatible cards available, and be rugged and transportable.



Connect three of your favorite pro PCIe cards to any computer with Thunderbolt ports. Supports every Thunderbolt-compatible card.

Three Full-Height, Full-Length Cards



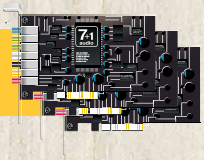
- One x16 plus two x8 PCIe slots; support three full-length (up to 12.28 inches long), full-height, single-width cards, or one double-width card plus one single-width card
- Built-in 300W power supply with 75W auxiliary power connector

Echo Express SE III

3-SLOT DESKTOP

Measuring just 6.5 inches wide x 4.6 inches high x 11 inches deep, the Echo Express SE III (Thunderbolt 3 interface only) supports three half-length+ (up to 7.75 inches long), full-height PCIe cards, yet it takes up little space wherever you work, be it in the studio, on location, at your desk, or in the edit suite. For users who need to use two or three adapter cards, the SE III is Sonnet's most compact 3-slot expansion system ever. If you need to install cards longer than 7.75 inches, or cards that require auxiliary power, take a look at the Echo Express III-D and III-R.

Three Full-Height, Half-Length+ Cards



- Three PCIe x8 slots; support three half-length+ (up to 7.75 inches long), full-height cards

Compact 2-Slot System

The Echo Express SE II (Thunderbolt 2 interface only) supports two half-length+ (up to 7.75 inches long), full-height PCIe cards, plus a daughter card. It is the same size as the Echo Express SE III.

1. One 4K monitor directly supported. For Thunderbolt 3 systems, two 4K monitors require either 4K monitors with multi-stream transport support (DP out), or a Thunderbolt 3-to-Dual DisplayPort adapter; 5K monitor requires a Thunderbolt 3-to-Dual DisplayPort adapter.
2. For Thunderbolt 3 systems, second Thunderbolt 3 port supports Thunderbolt and Thunderbolt 2 devices when used with an adapter, sold separately.
3. For Thunderbolt 3 systems, second Thunderbolt 3 port supports USB devices when connected with proper cable (sold separately).
4. For Thunderbolt 3 Editions, Thunderlok included only with Echo Express SEL, SE I and SE III.

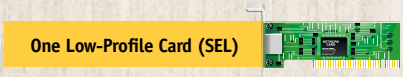
Echo Express Key Features

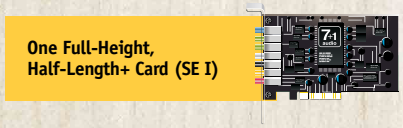
- Enables use of high-performance PCIe cards with computers lacking slots
- Systems available with 40Gbps Thunderbolt 3 interface or 20Gbps Thunderbolt 2 interface
- Systems with Thunderbolt 2 interfaces are upgradable to 40Gbps Thunderbolt 3
- Thunderbolt 3 systems feature PCIe 3.0 slots, Thunderbolt 2 systems include PCIe 2.0 slots; all systems support PCIe 3.0, 2.0, and 1.1 cards
- Includes second Thunderbolt port for daisy chaining devices, including Thunderbolt[2] and USB[3] devices, and/or connecting up to two 4K displays or one 5K display[1]
- Temperature-controlled fans automatically operate slower and quieter with cooler cards; provide better cooling for hotter cards
- Includes Thunderbolt cable and ThunderLok Thunderbolt connector retainer clip[4]

Echo Express SEL & SE I

SINGLE-SLOT DESKTOPS

The Echo Express SEL is the smallest, quietest Thunderbolt-to-PCIe card expansion system available. This model supports a single low-profile PCIe card and is a perfect match for many Thunderbolt-compatible 16Gb and 8Gb Fibre Channel, 10 Gigabit Ethernet, video capture and processing, SAS and SATA host bus adapters, and RAID controller cards. The Echo Express SE I is a bit larger than the SEL, but is able to support one half-length+ (up to 7.75 inches long), full-height PCIe card, and includes an additional slot space to mount an adjacent daughter card. The extra space within enables this model to support nearly every Thunderbolt-compatible card available, making this Echo system perfect for users needing only to connect a single, larger card.





- PCIe x8 slot; supports one low-profile card (SEL)
- PCIe x8 slot; supports one half-length+ (up to 7.75 inches long), full-height card, plus daughter card (SE I)

eGFX BREAKAWAY BOX

Ideal for accelerating special effects, animation, color grading, rendering and editing

Also ideal for enabling graphic-intensive gaming on non-gaming computers:

- Enables high frame rate gaming with thin/light notebooks
- Accelerated graphics on notebook display or external display
- No need to carry around a heavy/ expensive gaming laptop—plug in GPU power when you need it

Sonnet's eGFX Breakaway Box, a Thunderbolt 3-to-PCIe card expansion system, was designed specifically for bandwidth-intensive graphics cards. Functioning as a simple plug-in upgrade, the Breakaway Box boosts performance by connecting a high-performance desktop graphics (GPU) card to a Thunderbolt 3-equipped, notebook, all-in-one, or other small-form-factor computer. The Box supports cards with popular GPU chipsets such as AMD Radeon® R and RX and NVIDIA® GeForce® GTX 7xx, 9xx, and 10xx series, providing GPU support* for computationally-intensive applications, conveniently enabling more post production work to be accomplished on set. The Breakaway Box is also ideal for enabling graphic-intensive gaming on non-gaming (thin/light) computers with much higher frame rates, accelerating graphics on your notebook's display or an external monitor. There's no need to carry a heavy and expensive gaming laptop; just plug in a Breakaway Box and add GPU power when you need it!

In addition to eGPU support, with its single x16 PCIe 3.0 slot, the eGFX Breakaway Box supports every other Thunderbolt 3-compatible PCIe card regardless of length or width and is also perfect for full-length cards such as the RED Rocket-X or AVID Pro Tools|HDX. The Breakaway Box is the coolest and quietest eGFX box on the market, with a large built-in, variable speed, temperature-controlled fan that quietly and effectively cools the installed card. The Box's single port 40Gbps Thunderbolt 3 interface ensures the full 2,750 MB/s of PCIe bandwidth is dedicated to the installed card.

AMD RADEON GRAPHICS
NVIDIA GEFORCE GTX

Supports cards with popular GPU chipsets such as AMD Radeon R9 and RX and NVIDIA GeForce GTX 9 and 10 series

Key Features

- One x16 PCI Express 3.0 slot
- 40Gbps Thunderbolt 3 interface with one Thunderbolt 3 (USB-C) port
- Supports cards with popular GPU chipsets such as AMD Radeon R9 and RX and NVIDIA GeForce GTX 7xx, 9xx, and 10xx series*
- Supports full-height, full-length and double-width cards
- Quietest eGFX box available
- Thunderbolt Certified for Mac & Windows

* A list of supported eGFX-enable GPU cards, and eGPU-enable computers will be available on the Sonnet Technologies website, www.sonnettech.com.

PCIe cards not included

xMac™ Pro Server

PCIe 2.0 EXPANSION SYSTEM/4U RACKMOUNT ENCLOSURE FOR MAC PRO WITH THUNDERBOLT 2 PORTS

XMAC-PS

The latest Mac Pro offers pro users in the video and audio industries a powerful platform to run applications they depend on, but lacks the built-in expandability they count on, plus there's no obvious way to rackmount it.

Designed exclusively for the Mac Pro, Sonnet's updated xMac Pro Server addresses those issues and makes the Mac Pro road-ready, housing the computer, a 20Gbps Thunderbolt 2-to-PCIe card expansion system, and optional equipment in a rugged, modular, 4U steel enclosure. The computer mounting module firmly holds the Mac Pro in place while protecting its mirror finish. The expansion system module supports three high-performance PCIe cards and connects them to the Mac Pro via an included Thunderbolt cable. Using an optional Mobile Rack Device Mounting Kit, you can mount and connect additional storage expansion and an optical drive, or even an LTO tape drive inside the xMac Pro. At just 16 inches deep, the xMac Pro Server fits a wide range of popular mobile racks, carts and portable rack cases, while its modular design simplifies set up and maintenance.

RackMac™ Pro

RACKMOUNT ENCLOSURE FOR ONE OR TWO MAC PRO COMPUTERS

RACK-PRO-1X | RACK-PRO-2X

Sonnet's updated RackMac Pro securely encloses one or two Mac Pros side-by-side in 4U of rack space, its design enabling the computers to keep cool even when installed in a fully-loaded rack. It is available with either one or two Computer Mounting Modules preinstalled, with an optional second module available for purchase separately. Captive thumbscrews simplify computer installation and Thunderbolt cable connections, while illuminated USB 3.0 ports on the front provide visual feedback that the computers are on.

RackMac Pros are trusted by pro users worldwide, logging tens of thousands of miles of travel per year in mobile recording trucks and supporting touring rock bands. They can also found in server and equipment rooms supporting software development and numerous other tasks. Included rackmount extension rails allow secure mounting in racks from 16 to 26 inches deep (optional rails to 32.5 inches*).

Two large, temperature-controlled, variable-speed fans take advantage of optimized airflow management to cool the PCIe expansion system separately from the computer with remarkably quiet operation

Connect three of your favorite pro PCIe cards to a Mac Pro with Thunderbolt 2 ports. Supports every Thunderbolt-compatible card. Supports three full-length, single-width cards, or one double-width card plus one single-width card

Quick and easy access to cables. Two part front plate and captive thumbscrews secure modules without the need for tools

Locking HDMI Cable Included
2-meter locking HDMI cable with thumb-screw fastener to prevent accidental disconnection included

Makes the Mac Pro road-ready, securely holding the computer, PCIe cards and expansion equipment in place in a sturdy 4U rackmount enclosure

Modular design allows you to work with individual modules and components separately.

Includes Thunderbolt cable and ThunderLok Thunderbolt connector retainer clip

Space for More Equipment
Optional Mobile Rack Device Mounting Kits enable installation of HDDs, SSDs, a tape or optical drive

Front Panel Power Button
Power button engages Mac Pro's power switch

Attractive Label

Illuminated Front Panel USB 3.0 Port

Unrestricted Airflow
Full, independent airflow through the Mac Pro is maintained according to Apple guidelines.

Front Panel Power Button
Power button engages Mac Pro's power switch

4U Rack Enclosure—Standard mounting holes, and extension rails enable easy installation into racks from 16 to 32.5 inches deep*

Attractive Label

Strong, secure padded brackets envelop the Mac Pros to protect the computers' finish and hold them firmly in place during transport and use

Captive thumbscrews secure Computer Mounting Modules from the back, enabling easy computer installation, access to Mac Pro's cables

Modular Design
Purchase a second Computer Mounting Module for your RackMac Pro 1X to install another Mac Pro

RACK-PRO-MM

Panel-mount cables (HDMI, two Gigabit Ethernet, three USB 3.0, one 3.5 mm audio, and power) connect the Mac Pros' ports to ports on the back of the RackMac Pro for convenient external cable connection

Includes mounting support for Sonnet's Twin 10G Dual-Port Copper 10GBASE-T Thunderbolt 2 Adapter (optional mounting kit required)

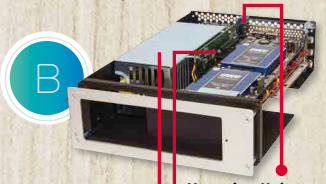
TWIN10G-TB2

Locking HDMI Cable Ready
Supports Sonnet HDMI cable with thumbscrew fastener that prevents accidental disconnection

Mobile Rack Device Mounting Kits (Optional)

Basic kit includes mounting bracket with 100W power supply and fan. Pre-configured kits include PCIe adapter card, plus cables and devices.

PCIe Card Expansion Module



Universal 300W Power Supply
With 75W auxiliary power connector allows use of cards that require supplementary power

Mounting Holes for BNC Connectors

Three PCIe 2.0 Slots

Computer Mounting Module

Protective Steel Cocoon
Covered with soft touch padding, holds the Mac Pro firmly in place while protecting its mirror finish

Panel-Mount Cables (HDMI, two Gigabit Ethernet, three USB, one 3.5 mm audio, and power) connect the Mac Pro to the back of the xMac Pro Server for convenient external connection. One Thunderbolt cable included.

* Optional long rackmount extension rails required to support racks deeper than 26 inches

PRO-RSS-L

Mac Pro, PCIe cards, Mobile Rack Device Mounting Kit, and mobile rack devices not included.

Sonnet's xMac mini Server transforms a Mac mini from a simple server to something much more. Securely mounting the computer inside a custom enclosure, it enables you to connect and harness the power of two full-height pro video capture, audio interface, 8Gb Fibre Channel, 10 Gigabit Ethernet, RAID controller PCIe cards, and more! Two Thunderbolt 2 ports—one to connect the PCIe slots to the Mac mini, the second for daisy chaining other Thunderbolt peripheral devices, are included. A USB 3.0 port and a power button on the front panel allow operation of the system without requiring access to the back of the computer.

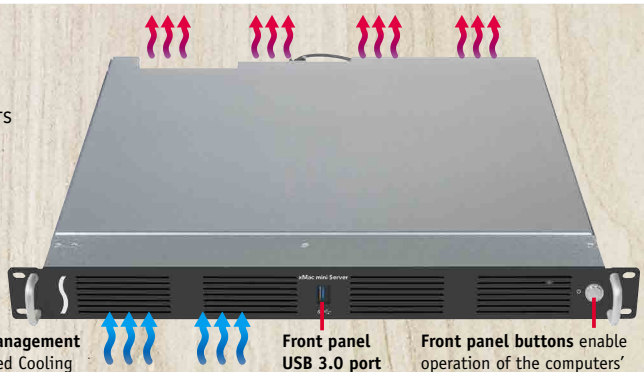
With its 1U rack design and 17.75-inch depth, the xMac mini Server is ideal for use in a wide range of popular mobile racks, carts and rack cases, and server rooms as well. The top cover provides easy access to the PCIe slots, the Mac mini, and the user-replaceable fans and power supply. Panel-mount cables (HDMI, Gigabit Ethernet, and 2x USB 3.0) are included to connect the ports on the back of the computer to ports on the back of the xMac mini Server for convenient external connection.

xMac mini Server

XMAC-MS-A

THUNDERBOLT 2-TO-PCIe CARD EXPANSION SYSTEM FOR MAC MINI WITH THUNDERBOLT PORTS

Enables use of PCIe cards, such as pro video capture, audio interface, 8Gb Fibre Channel, 10 Gigabit Ethernet, and RAID controller cards with a Mac mini with Thunderbolt ports



Air Flow Management for Optimized Cooling

Front panel USB 3.0 port

Front panel buttons enable operation of the computers' rear-mounted **power switches**

1U rackmount enclosure houses Mac mini, PCIe card slots, and integrated power supply

User-replaceable, variable-speed fans. **Quiet Fan Kit option available**

Two PCIe 2.0 slots connect two PCIe cards to the Mac mini through Thunderbolt expansion

Mounting holes **for optional rack slides**

Mounting holes **for BNC connectors**

User-replaceable power supply

Panel-mount cables

Thunderbolt cable and ThunderLok

20Gbps Thunderbolt 2 interface backward compatible with 10Gbps Thunderbolt hosts and devices, **upgradable to 40Gbps Thunderbolt 3**

RackMac mini

RACKMOUNT ENCLOSURE FOR ONE OR TWO MAC MINI COMPUTERS

RACK-MIN-2X

Sonnet's RackMac mini mounts one or two Mac minis side-by-side in 1U of rack space. Constructed of rugged steel, this fully assembled rackmount solution places the computers behind a neat front panel fitted with a power switch and USB 3.0 port for each, enabling you to turn the computers on and off, and connect a peripheral to each, without having to access the back of the computer.

Manages **airflow** through each computer from front to back, even when mounted between two other rackmount components

11-inch mounting depth and **firm rubber cushions** that hold the computers firmly in place during transport make RackMac mini perfect for portable rack installations

Provides **open access** to back of the computers for cable connection/disconnection

1U height and standard mounting holes allow easy installation into any standard equipment rack

Configuration Ideas

In place of a second computer, you can also install your own Apple Superdrive with Sonnet's SuperDrive bracket (RACK-MIN-SDBK). Alternatively, you can install Sonnet's Blu-ray Burner with Mounting Bracket (RACK-MIN-BDRW) to add read/write support for Blu-ray, DVD, and CD discs to your setup.

RACK-MIN-SDBK

RACK-MIN-BDRW

Second Mac mini

Mac mini

Front panel openings allow use of the **IR receivers** and viewing of power indicator LEDs

Front panel USB 3.0 ports support connection of a USB peripheral (flash drive, keyboard, etc.) to each computer

Front panel buttons enable operation of the computers' rear-mounted **power switches**

Blu-ray Burner or SuperDrive

Mac mini

Mac minis, PCIe cards, and SuperDrive shown not included

SF3 Series

Stackable For Customizing Your Workflow

Daisy chain multiple readers to ingest four, six or more cards simultaneously, taking advantage of Thunderbolt 3's 2,750 MB/s bandwidth

SxS™ Pro Card Reader

SF3-2SXS

DUAL-SLOT SXS CARD READER FOR COMPUTERS WITH THUNDERBOLT 3

- **Superior Performance**—Ingests files from any two SxS cards at maximum speed
- **Dual SxS Slots**—Enable simultaneous ingest of files from two cards for greater efficiency
- **Broad Card Support**—Supports all SxS media, including SxS PRO+ D Series cards; XQD and SDHD[2] cards supported[2]
- **40Gbps Thunderbolt 3 Interface**—Features dual Thunderbolt 3 (USB-C) ports; second port supports daisy chaining of up to five additional Thunderbolt peripheral devices
- **Rugged Construction**—Aluminum enclosure for rugged and reliable operation
- **0.5-Meter Thunderbolt 3 (40Gbps) Cable Included**
- **macOS® and Windows® compatible**

CFast™ 2.0 Pro Card Reader

SF3-2CFST

DUAL-SLOT CFAST 2.0 CARD READER FOR COMPUTERS WITH THUNDERBOLT 3

- **Superior Performance**—Supports ingest of files from any two CFast cards at maximum speed
- **Dual CFast Slots**—Enable simultaneous ingest of files from two cards up to 1,000 MB/s aggregate
- **40Gbps Thunderbolt 3 Interface**—Features user-replaceable, captive 0.5-meter Thunderbolt 3 (40Gbps) cable with USB-C connector
- **Bus-Powered**—Powered through Thunderbolt connection; no power adapter required
- **Rugged Construction**—Aluminum enclosure for rugged and reliable operation
- **macOS and Windows compatible**

TB3-DDP4K

Sonnet Thunderbolt 3 to Dual DisplayPort Adapter

- Connects two 4K displays @ 60Hz, or one 5K display @ 60Hz to one Thunderbolt 3 port (USB-C) on your computer[1]
- Mac and Windows compatible
- Bus-powered—no power adapter required
- Compact alternative to a laptop dock
- Also supports 1080p displays
- Compatible with "active" HDMI, DVI, and VGA adapters
- Thunderbolt 3 Interface; attached Thunderbolt cable

ECHOPRO-E34

SxS

Thunderbolt Pro SxS Card Reader

- Fastest, least-expensive single-slot SxS memory card reader available
- Thunderbolt interface
- Reads SxS memory cards at full speed, up to 400 MB/s
- Supports all SxS media (including SxS PRO+ D Series), and XQD cards[2]
- Bus-powered—no power adapter required
- OS X, macOS and Windows compatible
- Compatible with Apple Thunderbolt 3 (USB-C) to Thunderbolt 2 Adapter

TB-P2

P2

Thunderbolt Pro P2 Card Reader

- Read speeds up to 70 MB/s; supports all P2 memory cards, including microP2[2], and frame rates
- Fastest, most cost-effective single-slot P2 memory card reader available
- Thunderbolt interface
- Thunderbolt cable included
- Bus-powered—no power adapter required
- OS X, macOS compatible
- Compatible with Apple Thunderbolt 3 (USB-C) to Thunderbolt 2 Adapter

1. Check Sonnet website for compatibility details
2. Requires adapter, sold separately

Media cards shown not included.

Twin 10G™

DUAL-PORT 10GBASE-T
10 GIGABIT ETHERNET
THUNDERBOLT ADAPTERS

Twin 10G models connects to 10GbE infrastructure via inexpensive CAT-6 or CAT-6A cables

- Provides dual-port 10GbE connectivity
- Supports transparent failover between 10GbE ports
- Supports link aggregation (teaming)[2]
- Easy setup and configuration
- Compact and nearly noiseless
- Thunderbolt cable & ThunderLok included

Sonnet's Twin 10G Dual-Port 10 Gigabit Ethernet to Thunderbolt Adapters add lightning fast 10 Gigabit Ethernet (10GbE) network connectivity to any computer with Thunderbolt ports. Available with 40Gbps Thunderbolt 3 or 20Gbps Thunderbolt 2 interfaces, choose between a Twin 10G, featuring two RJ-45 ports for 10GBASE-T (copper) connectivity, or a Twin 10G SFP+, with sockets for SFP+ transceivers (sold separately) enabling 10GBase-SR, 10GBase-LR (fiber optic), or 10GBASE-T (copper) connectivity.

All four adapters feature dual Thunderbolt ports, and connect to your computer through an included Thunderbolt cable; their second Thunderbolt ports support daisy-chaining of up to five additional Thunderbolt peripheral devices. See the table below for more features.

Twin 10G SFP+

DUAL-PORT SFP+
10 GIGABIT ETHERNET
THUNDERBOLT ADAPTERS

Twin 10G SFP+ models connect to 10GbE infrastructure via LC fiber optical cables or CAT-6A cables[1]

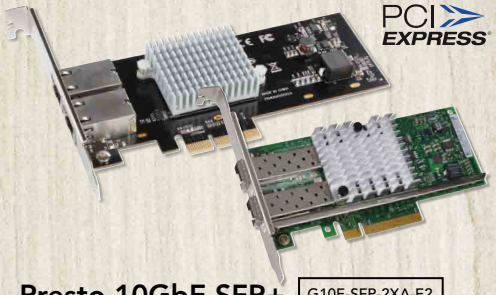
The optional Twin 10G Mounting Kit secures the Twin 10G adapter next to each Mac Pro inside RackMac Pro, or xMac Pro Server. Currently compatible only with TWIN10G-TB2. See Sonnet Website for details.

RACK-PRO-10G-KT

Presto™ 10GbE 10GBASE-T

DUAL-PORT 10GBASE-T 10 GIGABIT ETHERNET PCI EXPRESS® 3.0 CARD

G10E-2X-E3



Presto 10GbE SFP+

G10E-SFP-2XA-E2

DUAL-PORT 10 GIGABIT ETHERNET
PCI EXPRESS 2.0 CARD

Sonnet's Presto 10GbE dual-port 10 Gigabit Ethernet PCI Express adapter cards are easy to install and configure, enabling you to connect your computer to high-speed ethernet infrastructure at full 10Gb speed. These Sonnet solutions are perfect for high-performance computing where low latency, high bandwidth, and low CPU overhead are required. Both cards are also ideal for use in one of Sonnet's Thunderbolt-to-PCIe card expansion systems.

- Provides 10GbE Connectivity to Mac Pro Towers and Windows PCs
- Supports transparent failover between 10GbE ports
- Supports link aggregation (teaming)[2]
- Easy setup and configuration
- Optimized for Thunderbolt—Use with Sonnet's Echo Express and xMac expansion systems

Sonnet offers three SFP+ transceiver options (sold separately) for Twin 10G SFP+ models and the Presto 10GbE 10GBASE-T card—a short-range multi-mode fiber module (up to 300 meters), part number **G10E-SFP-SR**; a long-range single-mode fiber module (up to 10 kilometers), part number **G10E-SFP-LR**; and a 10GBASE-T copper module, part number **G10E-SFP-T** (CAT-6A cable up to 30 meters).

Presto 10GbE 10GBASE-T

Presto 10GbE SFP+

Twin 10G
Thunderbolt 2 Version

Twin 10G SFP+
Thunderbolt 2 Version

Twin 10G
Thunderbolt 3 Edition

Twin 10G SFP+
Thunderbolt 3 Edition

Part number	G10E-2X-E3	G10E-SFP-2XA-E2	TWIN10G-TB2	TWIN10G-SFP-TB2	TWIN10GC-TB3	TWIN10GC-SFP-T3
Adapter Type	PCIe 3.0 Adapter Card	PCIe 2.0 Adapter Card	Thunderbolt 2 Adapter	Thunderbolt 2 Adapter	Thunderbolt 3 Adapter	Thunderbolt 3 Adapter
10GbE Interface Type	10GBASE-T (RJ45)	SFP+	10GBASE-T (RJ45)	SFP+	10GBASE-T (RJ45)	SFP+
Configurable with SFP+ Transceivers[1]		✓		✓		✓
Cable Type Used	CAT-6 (55m) CAT-6A (100m)	LC, Optical CAT-6A (30m)	CAT-6 (55m) CAT-6A (100m)	LC, Optical CAT-6A (30m)	CAT-6 (55m) CAT-6A (100m)	LC, Optical CAT-6A (30m)
Controller	Intel® x550	Intel 82599	Intel x540	Intel 82599	Intel x550	Intel 82599
OS X, macOS Support	OS X 10.8.5+ (Sierra Compatible)	OS X 10.8.5+ (Sierra Compatible)	OS X 10.8.5+ (Sierra Compatible)	OS X 10.8.5+ (Sierra Compatible)	macOS 10.12.1+ (Sierra)	macOS 10.12.1+ (Sierra)
Windows Support	64-bit editions of Windows 10, 8, 7	64-bit editions of Windows 10, 8, 7	64-bit editions of Windows 10, 8, 7	64-bit editions of Windows 10, 8, 7	64-bit editions of Windows 10, 8, 7	64-bit editions of Windows 10, 8, 7
Linux Support	✓	✓				
FreeBSD	✓	✓				

1. 10GBase-SR, 10GBase-LR, or 10GBASE-T SFP+ transceivers required, sold separately.
2. Switch/router must support link aggregation (teaming), and ports must be configured for link aggregation. Windows 7 teaming support requires an Intel driver download. Link aggregation not supported by Windows 8 or 10.

Computers, xMac Pro Server, and transceivers not included.

Thunderbolt Expansion Systems

	Slots	PCIe Connector	Cards Supported	Thunderbolt Type	Upgradable to Thunderbolt 3	Thunderbolt Ports	Universal Power Supply	PCIe Auxiliary Power	Desktop	Rackmount
eGFX Breakaway Box 350	1	x16	Full-Length	Thunderbolt 3		1	350W Internal	8-Pin + 6-Pin	✓	
eGFX Breakaway Box 500	1	x16	Full-Length	Thunderbolt 3		1	500W Internal	8-Pin + 8-Pin	✓	
Echo Express SEL **Thunderbolt 3 Edition**	1	x8	Low-Profile	Thunderbolt 3		2	60W External		✓	
Echo Express SE I **Thunderbolt 3 Edition**	1	x8	Half-Length+	Thunderbolt 3		2	60W External		✓	
Echo Express SE III	3	x8/x8/x8	Half-Length+	Thunderbolt 3		2	120W External		✓	
Echo Express III-D **Thunderbolt 3 Edition**	3	x8/x16/x8	Full-Length	Thunderbolt 3		2	300W Internal	6-Pin	✓	
Echo Express III-R **Thunderbolt 3 Edition**	3	x8/x16/x8	Full-Length	Thunderbolt 3		2	300W Internal	6-Pin		✓
Echo Express SEL	1	x8	Low-Profile	Thunderbolt 2	✓	2	60W External		✓	
Echo Express SE I	1	x8	Half-Length+	Thunderbolt 2	✓	2	60W External		✓	
Echo Express SE II	2	x16 /x8	Half-Length+	Thunderbolt 2	✓	2	80W External		✓	
Echo Express III-D	3	x8/x16/x8	Full-Length	Thunderbolt 2	✓	2	300W Internal	6-Pin	✓	
Echo Express III-R	3	x8/x16/x8	Full-Length	Thunderbolt 2	✓	2	300W Internal	6-Pin		✓
xMac Pro Server	3	x8/x16/x8	Full-Length	Thunderbolt 2	✓	2	300W Internal	6-Pin		✓
xMac mini Server	2	x16 x8	Full-Length Half-Length	Thunderbolt 2	✓	2	150W Internal	6-Pin		✓

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