

Mini IP Solutions

SOHO Power Reboot & KVM Gateway Over IP



Why Mini IP Solutions ?

Stylish Mini Size Chassis

- Unlike a rack mount device which is installed in IT server rack, Austin Hughes Mini IP Solution (MiniBoot & Mini IP KVM) can be applied in various environment for diversified applications (e.g. SOHO, commercial office, kiosks, etc)

Save Manpower & Travel Costs

- Via network IP, user can remotely monitor and control the computers or reboot the devices anytime and anywhere.
- Reduce manpower and travel costs by negating the need for staff to actually be at the equipment location, improving uptime and productivity.

Benefits via MiniBoot

Remote Reboot to Recover Your Device

- When a complete restart is required MiniBoot provides a simple and easy way to reboot a hardware device.
- In addition, MiniBoot provides 3 kinds of auto outlet control :
 - IP-Ping automatically detects a failed system for timely reboot
 - Outlet on/off by sensor condition
 - Outlet on/off scheduling

Diversified Outlets & Inlets

- Variety of outlets & inlets available for different regional power requirements
- Outlet : US NEMA, IEC C13, UK BS1363, German Schuko CEE 7/3 or French CEE 7/5
- Inlet : C20 for different regional power cords (Custom inlet available on request)

Enterprise PDU Level IP Authentication

- Remote management protocols: HTTP(S); SSH Command Line Interface; Telnet; SMTP; IPv6/IPv4
- Active Directory (AD), Lightweight Directory Access Protocol (LDAPv3 / LDAPS)
- Remote Access Dial-In User Service (RADIUS) protocol, or local credential database
- Strong passwords and granular user/user group permissions
- Simultaneous access via free management web GUI



Benefits via Mini IP KVM

Variety of Models

- USB-C, HDMI, VGA or DVI-D video port selection ;
- 1-port, 2-port or 4-port IP KVM Gateway

User Friendly IP Remote Access

- HTML-base & Java-free remote access over IP
- Support BIOS access, no need to run OS on the connected PC(s)
- Hot pluggable, no software or drivers required

Mac & Windows Compatible

- Hardware Support : Mac / HP / IBM / Dell PC, Server and Blade Server
- OS Support : Mac / Windows / Linux

Enterprise KVM Level IP Authentication

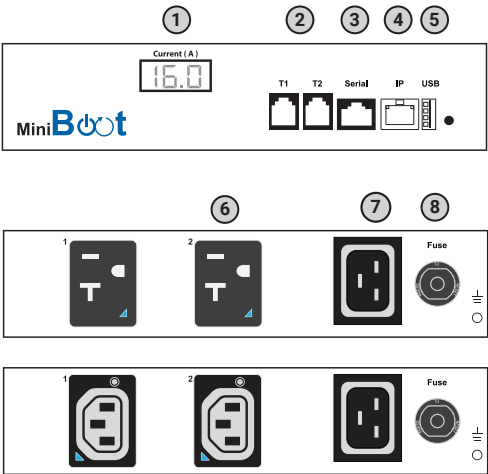
- Support high-speed network IP via 1000Base-T (Gigabit) Ethernet port
- Utilizes 256-bit high level encryption.
- Strong passwords for user permissions.
- Support HTTP (s) management protocols.



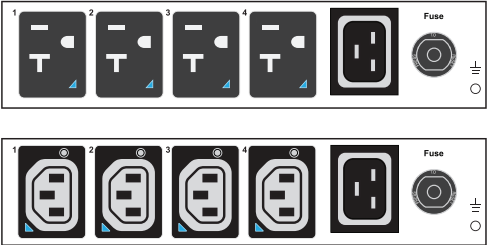
Unlike a rackmount device which is mounted inside an IT server rack enclosure, MiniBoot power switch & Mini IP KVM can be applied in diversified applications. Mini IP Solution is designed for a variety of market and industries - SOHO (Small Office/ Home Office), Transportation (Air, Land and Sea), Broadcasting, Entertainment, Advertising, Manufacturing, Mining, Satellite, Defense, Education, Telecommunication, Finance & Banking, Commercial, etc.

Applications





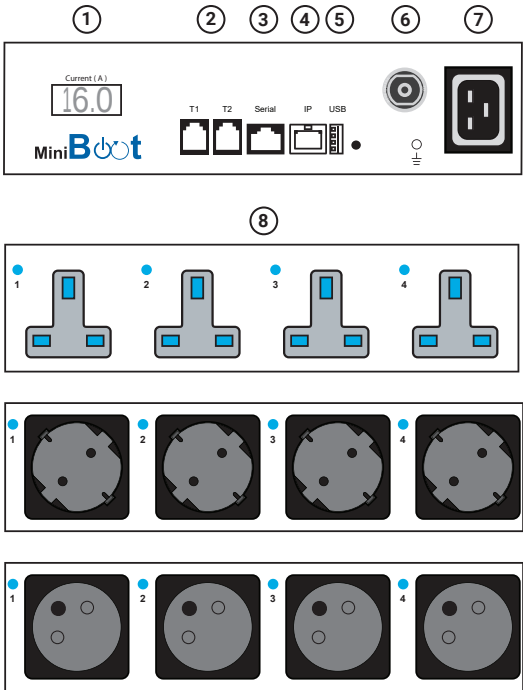
- 1 RMS current meter x 1
- 2 Sensor port x 2
- 3 Serial port x 1
- 4 Gigabit IP LAN port x 1
- 5 USB Wifi port x 1
- 6 Switched outlets (US NEMA, C13)
- 7 C20 Inlet x 1
- 8 Resettable fuse x 1



MiniBoot – NEMA / IEC			Amp			Product Dimension
Outlet	Inlet	Model	110V	208V	230V	W x D x H
NEMA x 2 NEMA x 4	C20 x 1	MiniBoot-2US MiniBoot-4US	15A			200 x 145 x 44.5 mm 7.9 x 5.7 x 1.8 inch
C13 x 2 C13 x 4		MiniBoot-2C13 MiniBoot-4C13		16A	10A / 13A / 16A	

UL FC CE CB UK RoHS3 REACH

* Custom configuration available on request
** Input cordset excluded
*** Dimensions are subject to change without prior notice

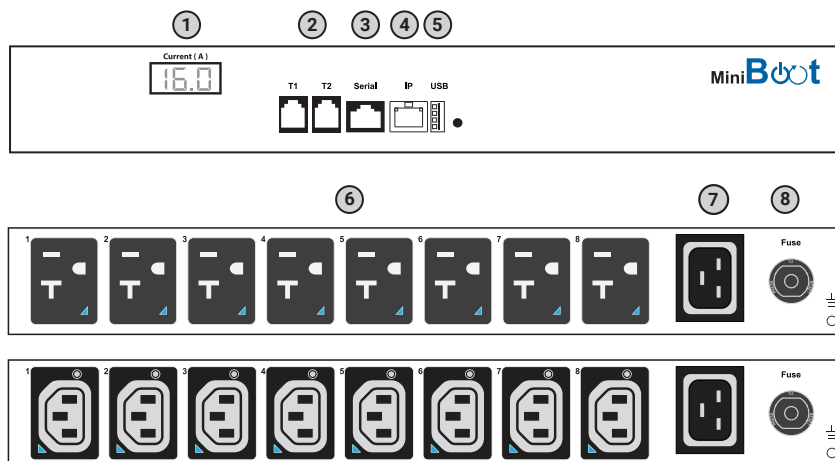


- 1 RMS current meter x 1
- 2 Sensor port x 2
- 3 Serial port x 1
- 4 Gigabit IP LAN port x 1
- 5 USB Wifi port x 1
- 6 Resettable fuse x 1
- 7 C20 Inlet x 1
- 8 Switched outlets (UK, Schuko or French)

MiniBoot - UK / SCH / FR			Amp			Product Dimension
Outlet	Inlet	Model	110V	208V	230V	W x D x H
UK x 4	C20 x 1	MiniBoot-4UK			10A / 13A / 16A	220 x 150 x 55 mm 8.7 x 5.9 x 2.2 inch
Schuko x 4	C20 x 1	MiniBoot-4SCH			10A / 16A	
French x 4	C20 x 1	MiniBoot-4FR			10A / 16A	

CE CB UK RoHS3 REACH

* Custom configuration available on request
** Input cordset excluded
*** Dimensions are subject to change without prior notice



- ① RMS current meter x 1
- ② Sensor port x 2
- ③ Serial port x 1
- ④ Gigabit IP LAN port x 1
- ⑤ USB Wifi port x 1
- ⑥ Switched outlets (US NEMA, C13)
- ⑦ C20 Inlet x 1
- ⑧ Resettable fuse x 1

MiniBoot - NEMA / IEC			Amp			Product Dimension
Outlet	Inlet	Model	110V	208V	230V	W x D x H
NEMA x 8	C20	MiniBoot-8US	15A			345 x 145 x 44.5 mm 13.6 x 5.7 x 1.8 inch
C13 x 8	C20	MiniBoot-8C13		16A	10A / 13A / 16A	



RoHS3

REACH

* Custom configuration available on request
 ** Input cordset excluded
 *** Dimensions are subject to change without prior notice

Hardware Specifications

Electrical	
Nominal input voltage	110V / 208V / 230V
Acceptable input voltage	±10% nominal
Input frequency	50 / 60Hz
Inlet	C20
Outlet	US NEMA, C13, UK BS1363, Schuko or French
Local meter	3-digit RMS current meter
Accuracy	± (3% of the reading + 5 last digits) RMS
Overload protection	Resettable fuse
Electrical endurance	1 x 10 ⁵ operations

Chassis	
Color	White
Material	Steel

Environmental	
Operating temperature	-5 to 60°C degree (23 to 140°F)
Storage temperature	-25 to 65°C degree (13 to 149°F)
Operating humidity	0~95%, non-condensing
Storage humidity	0~95%, non-condensing

Accessories	
Side Mount Kit	Included with all MiniBoot models
Rack Mount Kit	Included with IEC / US MiniBoot models
Temp. & Humid Sensor	Optional sensor (2m / 4m cord)
Temp. Sensor	
Door Sensor	
Smoke Sensor	Optional sensor (1m / 3m cord)
WIFI Kit	Optional kit (1M cord with USB port)

Compliance	110V / 208V	230V
EMC	FCC Part 15 Subpart B ICES-003 Issue 7	CE/EMC
Safety	UL 62368-1 : 2014 CSA C22.2 No. 62368-1 : 2014	CE / LVD , UKCA & CB EN 62368-1 : 2014 / A11 : 2017 BS EN 62368-1 : 2014 / A11 : 2017 IEC 62368-1 : 2014
Environment	RoHS3, Reach & WEEE	
ISO	9001 / 14001	

Physical	NEMA or C13		
	2 x outlet	4 x outlet	8 x outlet
Product (W x D x H)	200 x 145 x 44.5 mm		345 x 145 x 44.5 mm
Packing (W x D x H)	300 x 196 x 81 mm		525 x 230 x 80 mm
Net weight	0.9 kg / 2.0 lb		1.6 kg / 3.5 lb
Gross weight	1.2 kg / 2.7 lb		2.54 kg / 5.6 lb

Physical	UK, SCH or FR	
	4 x outlet	
Product (W x D x H)	220 x 150 x 55 mm	
Packing (W x D x H)	300 x 196 x 81 mm	
Net weight	1.23 kg / 2.7 lb	
Gross weight	1.53 kg / 3.4 lb	

Remote Reboot & Amp Monitoring Over IP

Remote management helps reducing manpower and hence improving uptime and productivity. It also benefits users with capacity planning and increasing the overall efficiency of the power management. MiniBoot offers two remote power management solutions for users' selection.



Built-in



via SNMP V2 / V3



Built-in MiniBoot GUI

User-friendly GUI is included with MiniBoot. The Administrator can remotely manage the MiniBoot via the web browser. It provides individual outlet switching On/Off, current monitoring and alarm alert functions. With enterprise level IP authentication, the administrator can manage the MiniBoot remotely with high security.

Circuit Monitoring & Outlet Switching

Outlet Control

Rule ID	Name	Period	Tr
01	Office Opening	00:00 - 23:59	D
02	Checking Failure	09:00 - 23:59	S
03	Office Closing	00:00 - 23:59	D
04	The default rule 4 name	00:00 - 23:59	D
05	The default rule 5 name	00:00 - 23:59	D
06	The default rule 6 name	00:00 - 23:59	D
07	The default rule 7 name	00:00 - 23:59	D

System Audit Trail

3rd Party DCIM via SNMP V2 / V3

MiniBoot supports SNMP V2 / V3 integration for clients requiring remote management of the MiniBoot using their existing DCIM (Data Center Infrastructure Management) in order to centralize the management for monitoring power, cooling and environmental factors across facilities and IT systems.

MiniBoot Software

FREE MiniBoot Web Power Reboot GUI

Functions	- Manual outlet on / off by GUI / SNMP - Automatic outlet on / off by scheduling , IP Ping and sensor condition - Aggregate current (Amp) monitoring - Alarm alert
Enterprise Level IP Authentication	- Active Directory (AD), Lightweight Directory Access Protocol (LDAPv3 / LDAPS) - Remote Access Dial-In User Service (RADIUS) protocol, or local credential database
Remote Management	Protocols: HTTP(S); SSH Command Line Interface; Telnet; SMTP; IPv6/IPv4
Alarms / Alerts	- Receive alerts via SNMP, email (SMTP), and syslog when predefined thresholds are exceeded for both MiniBoot and environmental sensor events - Common SNMP MIBs (Management Information Base) for all MiniBoot models
SNMP	SNMPv1/v2 & SNMPv3 for integration to DCIM

In today's digital age, businesses and organizations are increasingly reliant on remote management to save manpower & travel costs. IT administrators need to remotely manage PCs or servers over IP. Austin Hughes Mini IP KVM is the ultimate solution for a convenient, cost effective solution of remote PC management over IP.

Model Coverage



USB-C

- 1-port (IP-C101)
- 2-port (IP-C102)
- 4-port (IP-C104)



VGA

- 1-port (IP-S101)
- 2-port (IP-S102)
- 4-port (IP-S104)



HDMI

- 1-port (IP-H101)
- 2-port (IP-H102)
- 4-port (IP-H104)



DVI-D

- 1-port (IP-D101)
- 2-port (IP-D102)
- 4-port (IP-D104)

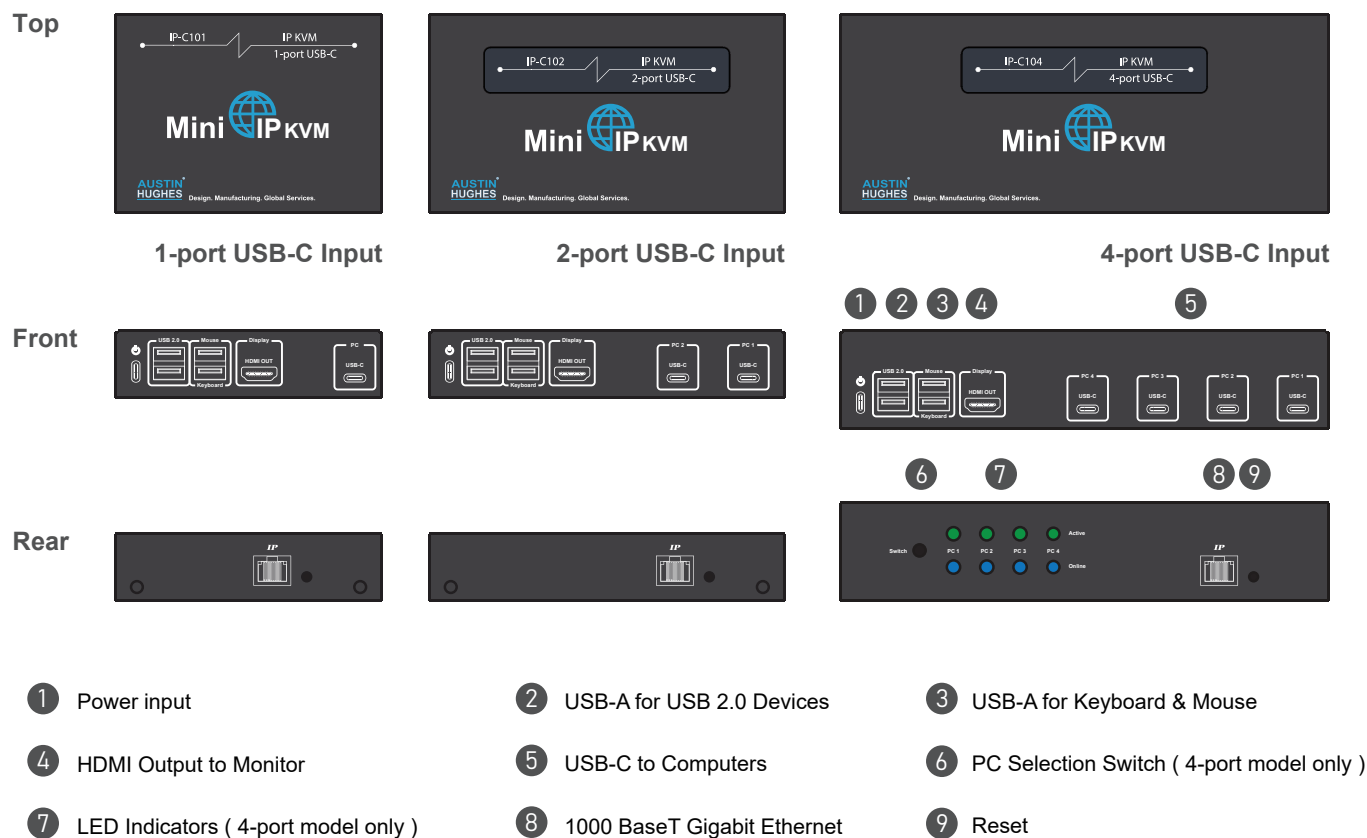
FC CE CB UK RoHS3 REACH

Specification

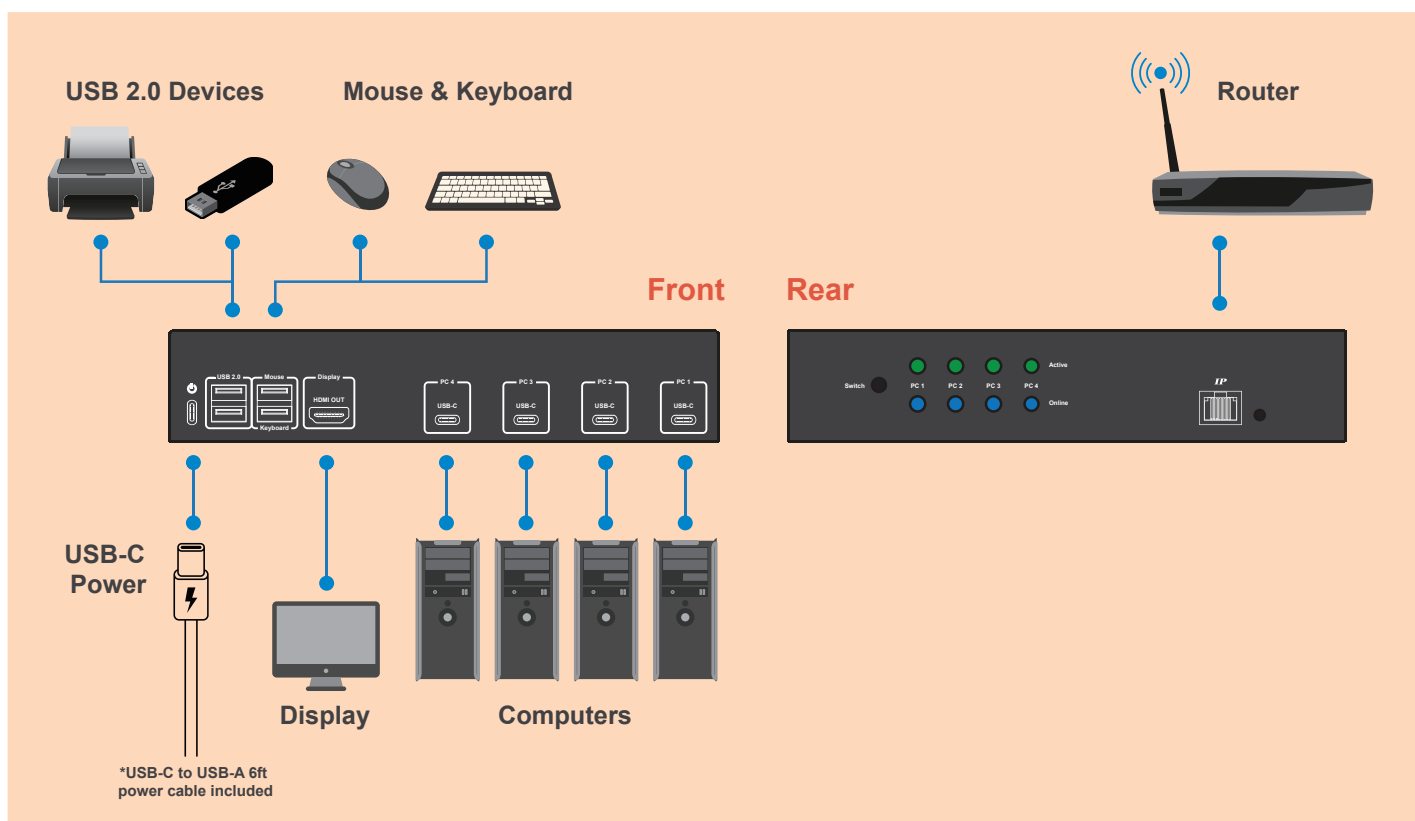
Catagories				USB-C Series			HDMI Series			VGA Series			DVI-D Series		
Models				IP-C101	IP-C102	IP-C104	IP-H101	IP-H102	IP-H104	IP-S101	IP-S102	IP-S104	IP-D101	IP-D102	IP-D104
KVM Port	Number			1	2	4	1	2	4	1	2	4	1	2	4
	Connector			USB-C			HDMI 1.4 + USB-B			VGA + USB-B			DVI-D + USB-B		
	Resolution (max)			1920 x 1080 (16:9) / 1920 x 1200 (16:10) / 1600 x 1200 (4:3)											
Local Console	Video			1 x HDMI 1.4			1 x HDMI 1.4			1 x VGA			1 x DVI-D		
	Keyboard / Mouse			2 x USB-A											
	USB Hub 2.0			2 x USB-A											
	Resolution (max)			1920 x 1080 (16:9) / 1920 x 1200 (16:10) / 1600 x 1200 (4:3)											
IP Console	Connector			1000 BaseT Gigabit Ethernet Port (RJ45)											
	User management			1 x active user, 15-user login											
	Network protocol			DHCP / BOOTP / DNS											
	Security			TLS 1.3, AES, LDAP, Active Directory (AD), HTTP(s)											
	Browser			Chrome, Firefox, Edge, etc											
	Resolution (max)			1920 x 1080 (16:9) / 1920 x 1200 (16:10) / 1600 x 1200 (4:3)											
Power	Input			USB-C											
	Consumption			Max. 11 W											
Mini Size (W x D x H)	A	120 x 87 x 30	mm	●											
		4.72 x 3.43 x 1.18	inch												
	B	160 x 87 x30	mm		●		●		●		●				
		6.30 x 3.43 x 1.18	inch												
	C	220 x 87 x 30	mm					●			●			●	
		8.66 x 3.43 x 1.18	inch												
	D	220 x 87 x 44	mm			●			●			●			●
		8.66 x 3.43 x 1.73	inch												

USB-C IP KVM

Design Overview



Connection Diagram



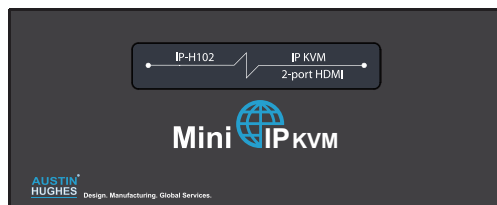
HDMI IP KVM

Design Overview

Top



1-port HDMI Input



2-port HDMI Input

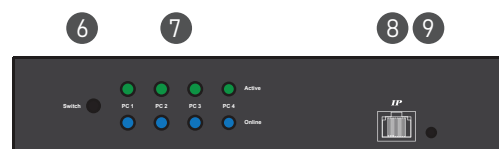


4-port HDMI Input

Front

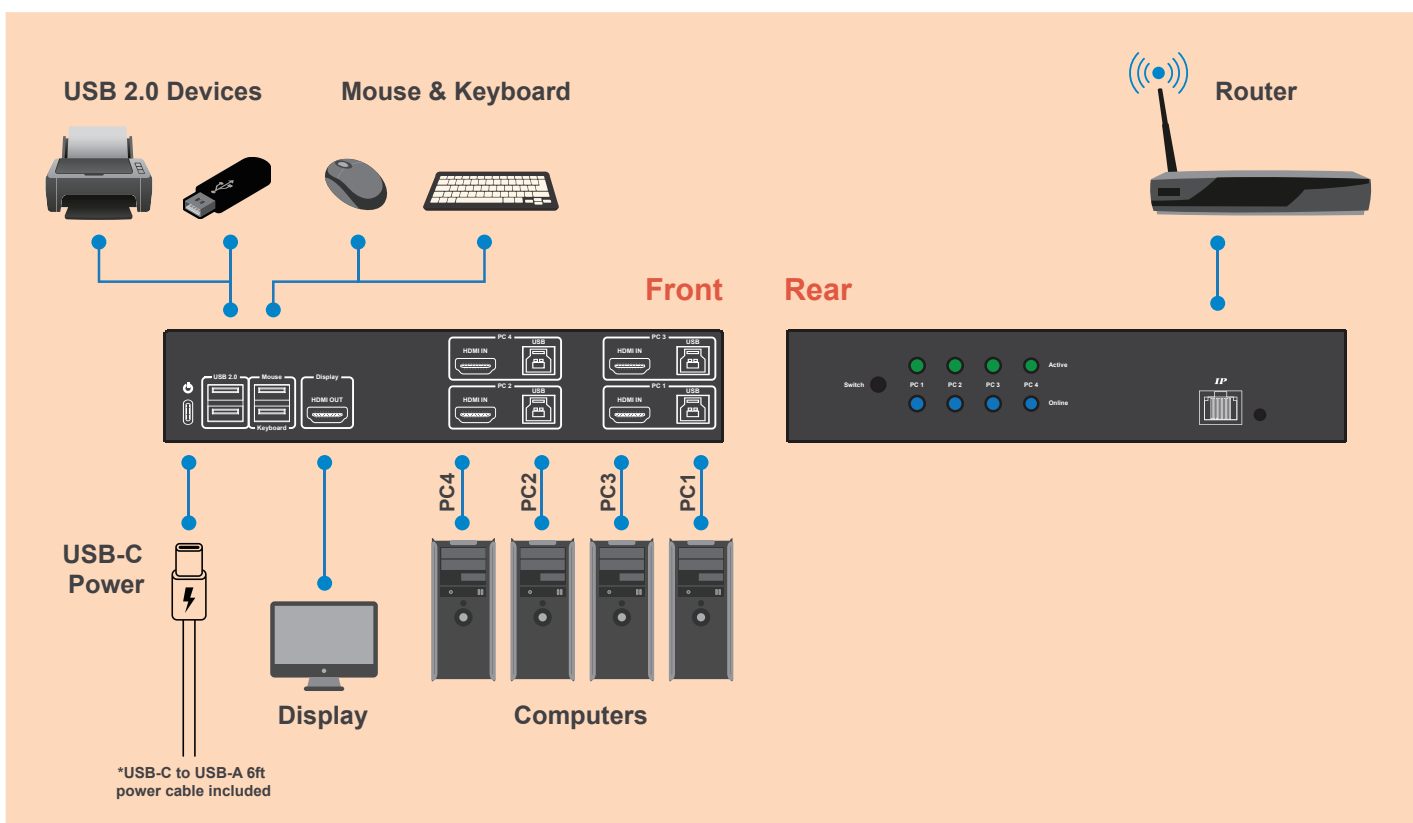


Rear



- | | | |
|--|-------------------------------|---|
| ① Power input | ② USB-A for USB 2.0 Devices | ③ USB-A for Keyboard & Mouse |
| ④ HDMI Output to Monitor | ⑤ HDMI + USB-B to Computers | ⑥ PC Selection Switch (4-port model only) |
| ⑦ LED Indicators (4-port model only) | ⑧ 1000 BaseT Gigabit Ethernet | ⑨ Reset |

Connection Diagram



VGA IP KVM

Design Overview

Top



1-port VGA Input

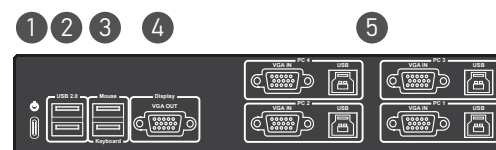


2-port VGA Input



4-port VGA Input

Front

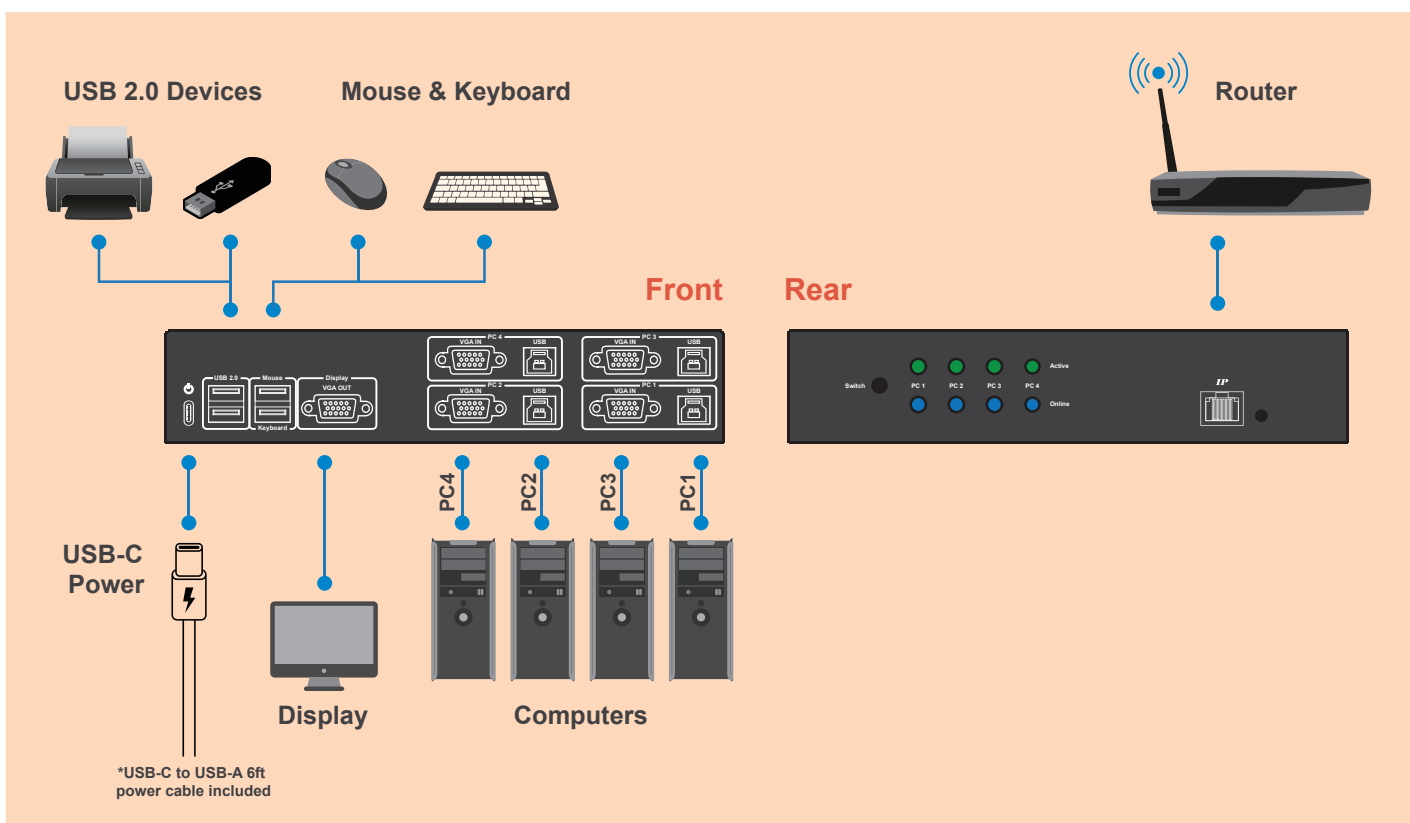


Rear



- | | | |
|--|-------------------------------|---|
| ① Power input | ② USB-A for USB 2.0 Devices | ③ USB-A for Keyboard & Mouse |
| ④ VGA Output to Monitor | ⑤ VGA + USB-B to Computers | ⑥ PC Selection Switch (4-port model only) |
| ⑦ LED Indicators (4-port model only) | ⑧ 1000 BaseT Gigabit Ethernet | ⑨ Reset |

Connection Diagram



DVI-D IP KVM

Design Overview

Top



1-port DVI-D Input

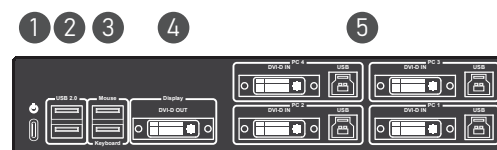


2-port DVI-D Input

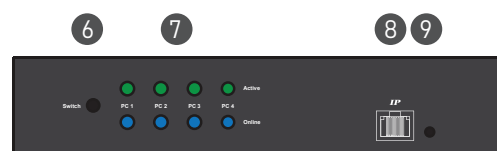


4-port DVI-D Input

Front

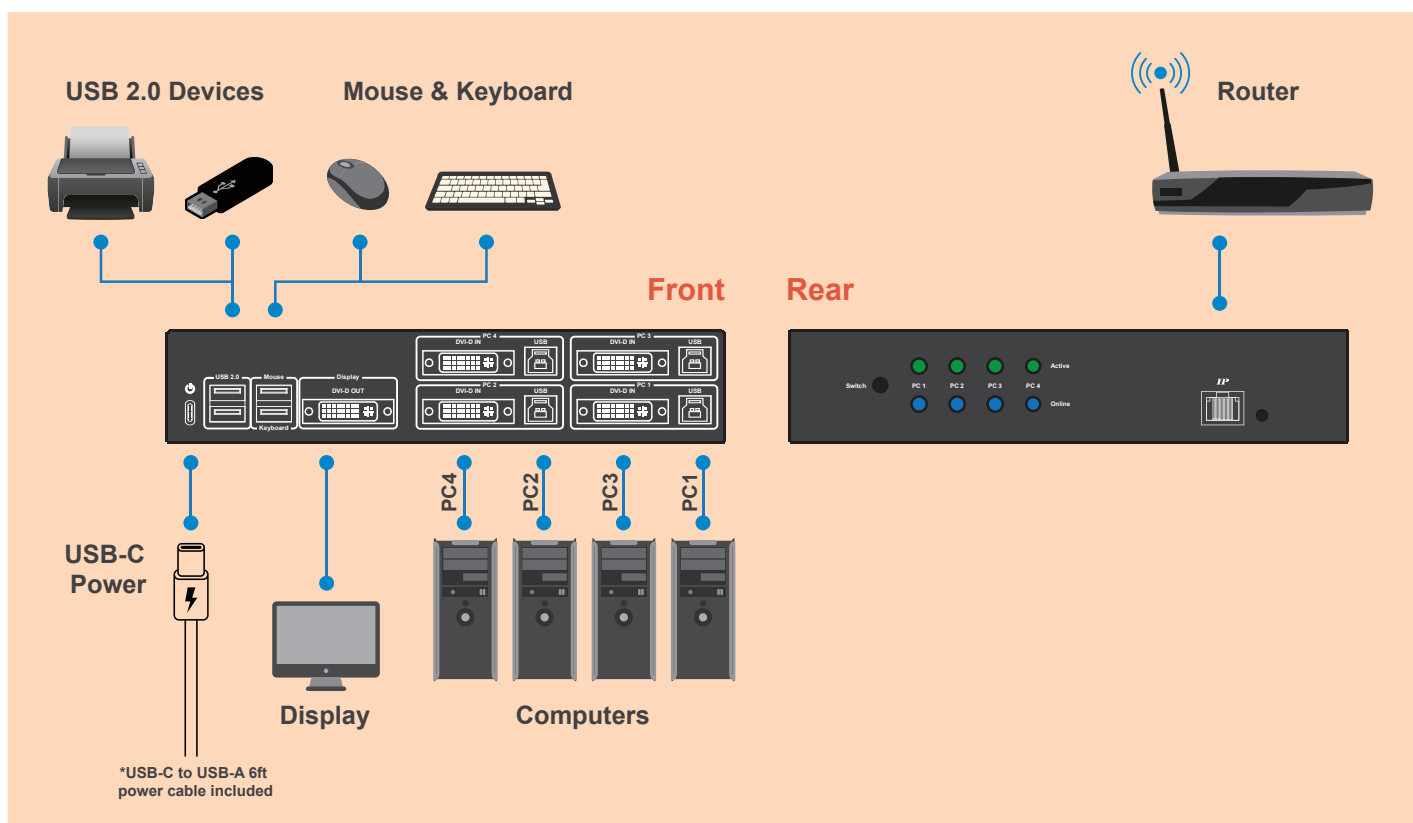


Rear



- | | | |
|--|-------------------------------|---|
| 1 Power input | 2 USB-A for USB 2.0 Devices | 3 USB-A for Keyboard & Mouse |
| 4 DVI-D Output to Monitor | 5 DVI-D + USB-B to Computers | 6 PC Selection Switch (4-port model only) |
| 7 LED Indicators (4-port model only) | 8 1000 BaseT Gigabit Ethernet | 9 Reset |

Connection Diagram



Mini IP Solutions



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