System Connections (Cambridge)
a division of Cambridge Electronic Industries Ltd
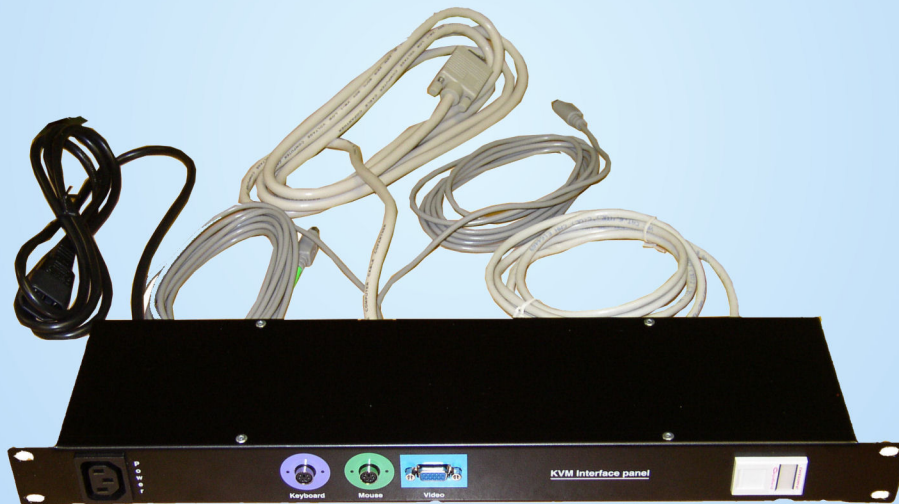
Power & Data Management

Power & Data Management Systems

1. **Power & Data Desking Modules**

2. **Data Outlet Desking Box**

3. **19" Rack Mounted Power Outlets**

4. **Vertical Mounted Power Outlets**

5. **IEC 320 Rack Mounted Outlets**

6. **Keyboard, Video, Mouse (KVM), Crash Interface Panel**

7. **Custom made racks and enclosures**

8. **Patch Panels**

9. **Power Cords**

10. **Cat5e Patch Cables**

System Connections (Cambridge)

Power & Data Desking Modules - Technical Information Sheet
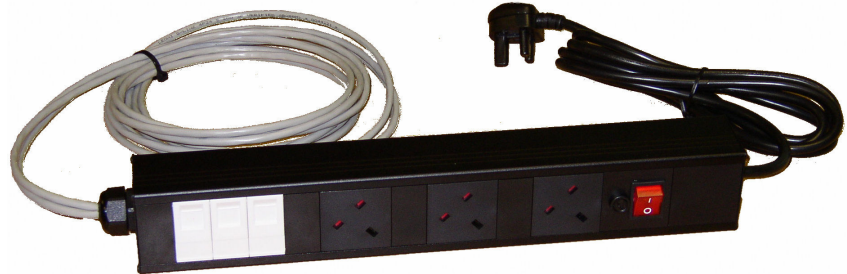
General Description:

System Connections' Desking range has been designed to comply with the requirements of BS6396 (2002) controlling the use of power distribution systems in office furniture.

Units are available for both under desk mounting within the cable management system, or directly on the desk top, using either screw fix or the micro clamp system.

Constructed using a modular principal, units can be configured to meet the exact requirements of each project, ensuring optimum performance for clients whilst minimising the cost of installation.

The power and data unit complies with the Low Voltage regulations for segregation between power and data cables. Most brands of voice or data cat5e or cat6 outlets, can be fitted, either 25x50mm or LJ6c sized.

Units can also be supplied pre-terminated with RJ45 data leads making installation a simple plug and play operation.

NOTE

∗ Available in black or silver anodised effect. Other colours to order.
∗ Custom variations available to order.
∗ Can be fitted with RCBO protection.
∗ Can be fitted with surge and RFI filter
∗ Can be fitted with flexible conduit

Standard Options:

Under desk fixing Power Only
4 way power module. Fixed mains lead, Wieland through connector, switched and fused.
2 way power module. Wieland input connector, switched, no fuse. (Extension for above)

Under desk fixing Power & Data
4 way power module switched & fused, fixed mains lead, with 2xCAT5e data modules
4 way power module switched & fused, fixed mains lead, with 4x CAT5e data modules
6 way power module switched & fused, fixed mains lead, with 6x CAT5e data modules

Desktop mounted Power Only
4 way power unit switched & fused. 2m mains lead UK plug.

Desktop mounted Power & Data
4 way power unit switched & fused. 2m mains lead UK plug + 2 CAT5e data modules
4 way power unit switched & fused. 2m mains lead UK plug + 4 CAT5e data modules

Accessories & options
Micro Clamp to fit a maximum desktop thickness of 35mm M6 cap head fixing
Wieland mains lead ST18 to BS 1363 plug top, 3m long
Wieland link lead ST18 plug to socket
SVGA 15 pin mini D connector (unwired)

Technical Specifications:

Overall units conform to	BS6396 (2002)
Operating Voltage	240V
Max. current rating	13A
Fuse rating	Can be set to conform with BS6396
Standard mains lead length 2m	
Case	Extruded Aluminium
Finish	Powder coat
Fixing	Screw Fix:- 2x5mm holes each end
	Desk Clamp: Max thickness 35mm

Key feature = modular construction = customisation = flexibility = versatility

Tel: +44(0)1223 863377   Fax: +44(0)1223 863625   Email: sales@systemconnections.co.uk   web: ww.systemconnections.co.uk

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Data Outlet Desking Box - Technical Information Sheet

General Description:

System Connections' Data Boxes provide a rugged and stylish solution for bringing data outlets to the desktop.

Constructed from aluminium extrusion and finished in black powder coat for maximum strength and durability, the desking box is available in 3 sizes, to accept either 4, 6 or 8 data or voice modules.

Suitable for most makes of cat5e and cat6 outlet, these units will accept LJ6-C (22.5x38mm) sized modules directly into the punched top plate, or remove this and insert the 50mm blank supplied and 25x50mm modules will snap straight in.

Cable entry is through a soft compression gland in the end cap.

Data boxes can be secured directly to any surface via a pair of 6mm holes in each end bracket.

Alternative sizes are available to order.

Customer Options:

* Data Boxes can be supplied fitted with modules and pre-terminated with RJ45 leads.
* special colours available to order.
* Can be fitted with flexible conduit

Standard Options

| Number of outlets	Body Length (mm)	Fixing Centres (mm)
4	150	178
6	200	228
8	250	278

Technical Specification

Case	Extruded Aluminium
Finish	Black Powder coat
Fixings	4 off 6mm dia. maximum
Cable entry	18mm compression gland
Size of module	25x50mm and LJ6C

Key feature = modular construction = customisation = flexibility = versatility

System Connections (Cambridge)

19" Rack Mounted Power Management - Technical Information Sheet
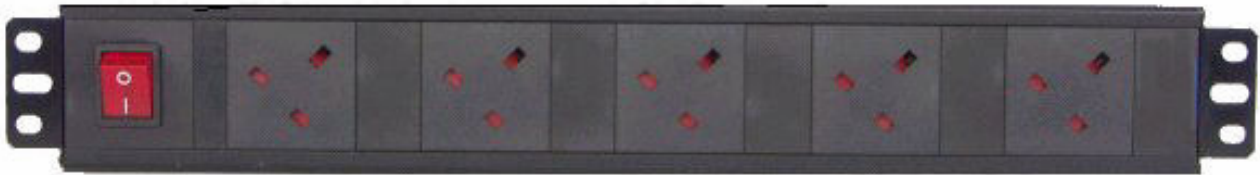
General Description:

System Connections' range of 1.5u 19" rack mounted power feeders with UK mains outlets.

Constructed from aluminium extrusion and finished in black powder coat for maximum strength and durability, they provide a reliable and stylish managed solution.

All units are supplied as standard with a double pole illuminated mains switch and a 2m mains lead, fitted with a moulded UK mains plug. All internal wiring is rated at 16A.

A range of options include:
* Master Fuse
* MCB
* RCD
* Digital ammeter (space permitting)
* Un-switched, neon only
* European power outlets
* Fully up rated 32A internal wiring and 32A BS4343 commando plug
* 16A BS4343 commando plug
* Custom length input leads
* Surge & RFI suppression

NOTE:
It is not possible to fit a mains switch or neon to 7 way units.

Standard Options

Number of sockets
4
5
6
7

Technical Specifications:

Overall units conform to	EN55022
Sockets	To BS1363
Internal wiring rating	16 or 32 Amps
Mains Lead rating	16 or 32 Amps
Input connectors	BS1363 plug top (standard 13A) BS4343 Industrial (Optional 16A) BS4343 Industrial (Optional 32A)
Operating Voltage	240V AC
Manufactured to	BS5733
Tested to	BS3456
Case	Extruded Aluminium
Finish	Black Powder coat
Fixings	6mm Maximum
Standard lead length	2m

Key feature = modular construction = customisation = flexibility = versatility

System Connections (Cambridge)

19" Rack Mounted Power Management - Technical Information Sheet

General Description:

System Connections range of vertically mounted power feeders intended for use with equipment cabinets.

Constructed from aluminium extrusion and finished in black powder coat for maximum strength and durability, they provide a reliable and stylish managed solution.

All units are supplied as standard with a double pole illuminated mains switch and a 2m mains lead, fitted with a moulded UK mains plug. All internal wiring is rated at 16A.

Socket pins are angled at 45º to prevent mains leads fouling adjacent sockets.

Options include:
* Master Fuse
* MCB
* RCD
* Digital ammeter
* Un-switched, neon only
* European power outlets
* Fully up rated 32A internal wiring and 32A BS4343 commando plug
* 16A BS4343 commando plug
* Custom length input leads
* Surge & RFI suppression

NOTE:
It is not possible to fit a mains switch or neon

Standard Options

Number of sockets	Body Length (mm)	Fixing Centres (mm)
4	337	365
6	461	489
8	586	614
10	710	738
12	835	863
15	1021	1049
20	1333	1361

Technical Specifications:

Overall units conform to	EN55022
Sockets	To BS1363
Internal wiring rating	16 or 32 Amps
Mains Lead rating	16 or 32 Amps
Input connectors	BS1363 plug top (standard 13A)
	BS4343 Industrial (Optional 16A)
	BS4343 Industrial (Optional 32A)
Operating Voltage	240V AC
Manufactured to	BS5733
Tested to	BS3456
Case	Extruded Aluminium
Finish	Black Powder coat
Fixings	6mm Maximum
Standard lead length	2m

Key feature = modular construction = customisation = flexibility = versatility

IEC 320 Power Management - Technical Information Sheet

General Description:

System Connections' IEC 320 range covers many different formats. Starting with a basic sockets only unit, other versions include overload protection and current monitoring options.

Constructed in a 19" rack mountable steel enclosure, all models are fitted with IEC 320/C13 outlets and fed via a fixed mains lead, with a choice of mains input connector.

Internal wiring is in Tri-rated cable and rated at 16A as standard, with the option of 32A rating, terminated with a BS4343 Commando style connector.

* Units can be supplied switched or with neon indicator only
* Optional overload protection using re-settable thermal circuit breakers or fuses.
* Optional Digital Ammeter
* Fully up rated 32A internal wiring and 32A BS4343 commando plug
* 16A BS4343 commando plug
* Custom length input leads
* Surge & RFI suppression

Units are fully earth bonded and fitted with external grounding posts.

NOTE:
The examples shown here are only some of the many permutations available. Please contact our sales office if you do not see what you require.

Standard Options

Number of outlets	Function & Features	Case Size
10	10 single outlets internally rated to either 13A 16A or 32A	1u
10	10 outlets with Digital Ammeter internally rated to 32A	1u
12	3 groups of 4 outlets. 6.3A re-settable trip per group, internally rated to 16A	1U
15	Individual fused outlets with fuse blown status lamps, internally rated to 13A	1u
20	20 outlets, internally rated to 32A	2u
20	4 groups of 5 outlets. 10A re-settable trip per group, internally rated to 32A	2u

Technical Specifications:

Overall units conform to	EN55022
IEC 320 C13 connector to	BS4491 UL recognised VDE, SEMKO approved A.S.T.A
Fuse Carriers	A.S.T.A.
Thermal Disconnect	EN60934
Input Connectors	BS1363 plug top (standard 13A) BS4343 Industrial (Optional 16A) BS4343 Industrial (Optional 32A)
Operating Voltage	240V
Output Current rating	Max. per individual outlet 10A
Overall Current rating	See format chart above
Case	Steel
Standard Finish	Black Powder coat
Fixing Style	1u/2u 19" rack mountable
Standard lead length	2m

Key feature = modular construction = customisation = flexibility = versatility

System Connections (Cambridge)

KVM Crash Panel - Technical Information Sheet

General Description:

System Connections' KVM panel is a convenient method of connecting directly into a rack mounted server with the minimum of effort.

Designed as a 1u rack mounted module, the KVM panel supports keyboard, video and mouse connections directly on the front panel, together with an IEC 320 C13 mains connector for supplying power for a monitor.
There is also an RJ45 connector allowing the user to connect into the building network.

From the rear of the unit come 2m long flying leads which plug into the server, building power supply and network, avoiding the need to disturb the cabling inside the rack and ensuring a trouble free connection.

Options

* Crash trolley available to hold monitor and keyboard, enabling operators to work in comfort. Large lockable rubber wheels make this unit easily manoeuvrable.
* Other lead lengths are available to special order.

Standard Options
2m Lead Length

Technical Specifications:

Panel mounted Video connector	15 pin hi-density "D" socket
Panel mounted Mouse connector	6 pin mini DIN socket
Panel mounted Keyboard connector	6 pin mini DIN socket
Panel mounted Mains connector	IEC 320 C13
Voltage	240vAC
Current rating	6A
Case	Steel
Finish	Black Powder Coat
Fixing Style	19" rack mounted

Key feature = modular construction = customisation = flexibility = versatility

Tel: +44(0)1223 863377   Fax: +44(0)1223 863625   Email: sales@systemconnections.co.uk   web: ww.systemconnections.co.uk