Accessories .... in-rack

Accessories in-rack

General accessories

Universal U height number strip	SRS	ARS	DRS	Order Code
Numbered 1 at the top and 47 at the bottom (pair)	■	■	■	AUHL
Numbered 47 at the top and 1 at the bottom (pair)	■	■	■	AUHLR
Pair 1 - Numbered 1 at the top and 47 at the bottom Pair 2 - Numbered 48 at the top and 94 at the bottom	■	■	■	AUHLFR

Baying kits	SRS	ARS	DRS	Order Code
SRS bolt together kit	■	-	-	NRABTK
ARS bolt together kit	-	■	-	BTK
DRS bolt together kit	-	-	■	D3BTK

All kits supplied complete with all applicable fixings and mounting instructions

Side support kits	SRS	ARS	DRS	Order Code
SRS 800mm deep (single side member)	■	-	-	SRSSK800PG
SRS 1000mm deep (single side member)	■	-	-	SRSSK1000PG
SRS 1200mm deep (single side member)	■	-	-	SRSSK1200PG

All kits supplied complete with all applicable fixings and mounting instructions

Castor kits	SRS	ARS	DRS	Order Code
Castor kit (Qty 4) (225kg dynamic load rating)	■	-	-	NRACK
Castor kit (Qty 4) (750kg dynamic load rating)	-	■	-	ACK
Castor kit (Qty 4) (750kg dynamic load rating)	-	-	■	D3CAST

All kits supplied complete with all applicable mountings, fixings and mounting instructions

SRS

ARS & DRS

Fixing kits	SRS	ARS	DRS	Order Code
Universal Posidrive M6 screws/washers (pack of 50)	■	■	■	FPFP
Universal slotted M6 screw/grey nylon washers (pack of 50)	■	■	■	FPFC
SRS accessory fixing kit (for fitting other accessories)	■	-	-	NRAFIXKIT

All kits supplied complete with all applicable fixings and mounting instructions

Earthing accessories

Rack earthing kits	SRS	ARS	DRS	Order Code
Universal earth kit	■	■	-	UAECEK2
DRS earth kit	-	-	■	D3EARTH
Universal electro static rack earthing point	■	■	■	UAESP

Earth bar kits comprise of earth bars, mounting brackets, isolation mounts, fixings and mounting instructions

| Rack earth bars	SRS	ARS	DRS	Order Code
Universal 19" mounted earth bar kit	■	■	■	AWBEB
Standard earth bar 1000mm	■	■	■	UEBK1000
Standard earth bar 2000mm	■	■	■	UEBK2000
Universal earth bar clamp - Qty 20 (For use on all rack earth bar kits)	■	■	■	UEBL20

Cable management accessories

Cable hoops	Colour	SRS	ARS	DRS	Order Code
Small cable tidy ring plastic	Grey	■	■	■	CTS
Large cable tidy ring plastic	Grey	■	■	■	CTL
600W cable management hoop	Silver	-	■	■	ACH6
800W cable management hoop	Silver	-	■	■	ACH8
800W flat bar cable management hoop		■	■	■	CTM17

Vertical cable trays	Height U	Width mm	SRS	ARS	DRS	Order Code
SRS - vertical cable trays	42U	75	■	-	-	NRA42UCTK075PG
	47U	75	■	-	-	NRA47UCTK075PG
	42U	150	■	-	-	NRA42UCTK150PG
	47U	150	■	-	-	NRA47UCTK150PG
	42U	300	■	-	-	NRA42UCTK300PG
	47U	300	■	-	-	NRA47UCTK300PG
ARS - vertical cable trays	42U	100	-	■	-	ACTR42
	47U	100	-	■	-	ACTR47
	52U	100	-	■	-	ACTR52
	42U	200	-	■	-	ACTRW42
	47U	200	-	■	-	ACTRW47
	52U	200	-	■	-	ACTRW52
	42U	300	-	■	-	ACTRXW42
	47U	300	-	■	-	ACTRXW47
	52U	300	-	■	-	ACTRXW52
DRS - vertical cable trays	42U	100	-	-	■	D3CTK42U100W
	47U	100	-	-	■	D3CTK47U100W
	52U	100	-	-	■	D3CTK52U100W
	42U	200	-	-	■	D3CTK42U200W
	47U	200	-	-	■	D3CTK47U200W
	52U	200	-	-	■	D3CTK52U200W
	42U	300	-	-	■	D3CTK42U300W
	47U	300	-	-	■	D3CTK47U300W
	52U	300	-	-	■	D3CTK52U300W
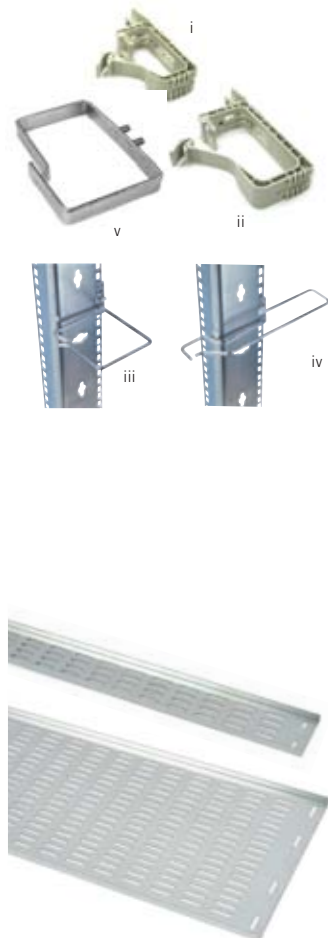
Cable management accessories

Vertical cable basket	Height U	Width mm	SRS	ARS	DRS	Order Code
SRS - vertical cable basket	42U	150	■	-	-	SR42UCBK150ZP
	47U		■	-	-	SR47UCBK150ZP
	42U	300	■	-	-	SR42UCBK300ZP
	47U		■	-	-	SR47UCBK300ZP
ARS - vertical cable basket	42U	150	-	■	-	ABS4215
	47U		-	■	-	ABS4715
	52U		-	■	-	ABS5215
	42U	300	-	■	-	ABS4230
	47U		-	■	-	ABS4730
	52U		-	■	-	ABS5230
DRS - vertical cable basket	42U	150	-	-	■	D3SCBK4215
	47U		-	-	■	D3SCBK4715
	52U		-	-	■	D3SCBK5215
	42U	300	-	-	■	D3SCBK4230
	47U		-	-	■	D3SCBK4730
	52U		-	-	■	D3SCBK5230

Vertical 19" rail cable organiser finger kits	Height U	SRS	ARS	DRS	Order Code
Universal rack RCM+ finger kit (pair).	42U	■	-	■	D3RCM42U
	47U	■	-	■	D3RCM47U
	52U	■	-	■	D3RCM52U

All kits supplied complete with all applicable fixings and mounting instructions
Standard Finish: Black fingers with silver carrier

Front to rear cable trough kits	Height U	Width mm	SRS	ARS	DRS	Order Code
SRS - adjustable dept cable trough	42U	408 - 608	■	-	-	SRS2UCT-2B
		608 - 808	■	-	-	SRS2UCT-3B
		808 - 1006	■	-	-	SRS2UCT-4B
ARS - adjustable depth cable trough	47U	408 - 608	-	■	-	AFR2UCT-2B
		608 - 808	-	■	-	AFR2UCT-3B
		808 - 1006	-	■	-	AFR2UCT-4B
DRS - adjustable depth able trough	52U	408 - 608	-	-	■	D3FR2UCT-2B
		608 - 808	-	-	■	D3FR2UCT-3B
		808 - 1006	-	-	■	D3FR2UCT-4B

All kits supplied complete with all applicable fixings and mounting instructions

Vertical 19" cable channels kits	Height U	Colour	SRS	ARS	DRS	Order Code
SRS - Single cable channel	42U	Silver	■	-	-	SRSCCK42U
	47U		■	-	-	SRSCCK47U
ARS - Single cable channel	42U	Silver	-	■	-	ACC42U
	47U		-	■	-	ACC47U
	52U		-	■	-	ACC52U
DRS - Single cable channel	42U	Silver	-	-	■	D3CCK42U
	47U		-	-	■	D3CCK47U
	52U		-	-	■	D3CCK52U

All kits supplied complete with all applicable fixings and mounting instructions

Cable management accessories

Enhanced vertical cable manager	Width mm	Height U	SRS	ARS	DRS	Order Code
SRS - enhanced vertical cable manager	90	42U	■	-	-	SRAVCMA42U90B
		47U	■	-	-	SRAVCMA47U90B
Universal enhanced vertical cable manager	100	42U	-	■	■	AVCMA42U100B
		47U	-	■	■	AVCMA47U100B
		52U	-	■	■	AVCMA52U100B
	170	42U	-	■	■	AVCMA42U170B
		47U	-	■	■	AVCMA47U170B
		52U	-	■	■	AVCMA52U170B
	260	42U	-	■	■	AVCMA42U260B
		47U	-	■	■	AVCMA47U260B
		52U	-	■	■	AVCMA52U260B
	330	42U	-	■	■	AVCMA42U330B
		47U	-	■	■	AVCMA47U330B
		52U	-	■	■	AVCMA52U330B
	400	42U	-	■	■	AVCMA42U400B
		47U	-	■	■	AVCMA47U400B
		52U	-	■	■	AVCMA52U400B

Vertical front to back cable management trough	Width mm	Depth mm	SRS	ARS	DRS	Order Code
Universal vertical front to back cable management trough	100	400	-	■	■	ACCT100400B
		590	-	■	■	ACCT100590B
		890	-	■	■	ACCT100890B
	170	400	-	■	■	ACCT170400B
		590	-	■	■	ACCT170590B
		890	-	■	■	ACCT170890B

Universal 19" horizontal RCM cable channel kits	Height U	SRS	ARS	DRS	Order Code
Universal horizontal RCM cable manager	1U	■	■	■	EUSB87019S1FB
	2U	■	■	■	EUSB87019S2FB
	3U	■	■	■	EUSB87019S3FB

Universal 19" horizontal cable channel kits	Height U	SRS	ARS	DRS	Order Code
Universal jumper ring cable manager	1U	■	■	■	JRP1
	2U	■	■	■	JRP2
Universal horizontal cable entry & support brush strip panel	1U	■	■	■	BSP1UB

Note: Finish in black as standard

Twist and lock cable management arms	SRS	ARS	DRS	Order Code
Twist and lock cable management support arms with standard end caps (Qty10)	■	■	■	TLCMS
Twist and lock cable management divider rings (Qty10)	■	■	■	TLCMR
Twist and lock cable management support arms with enhanced end caps (Qty10)	■	■	■	TLCMEE

Note: Designed to fit in 800W racks only

Thermal management accessories

Universal 19″ plain steel blanking panels	Height U	SRS	ARS	DRS	Order Code
Universal blanking panel	1U	■	■	■	PPS1B
	2U	■	■	■	PPS2B
	3U	■	■	■	PPS3B
	4U	■	■	■	PPS4B
	5U	■	■	■	PPS5B
	6U	■	■	■	PPS6B
	12U	■	■	■	PPS12B

Note: Finish in black as standard

Universal brush panel entry	Height U	SRS	ARS	DRS	Order Code
Universal plain brush strip entry panel	1U	■	■	■	OBSP1
	2U	■	■	■	OBSP2

Note: Finish in black as standard

Universal 19″ Plenafill steel blanking panels	Height U	SRS	ARS	DRS	Order Code
Plenafill blanking panel kit - 1 x 27U Square snap rivet fixings (Qty 50)	27U	■	■	■	CBLPF27U-1
Plenafill blanking panels - 10 x 27U No fixings please order separately		■	■	■	CBLPF27U-10
Plenafill square snap rivet fixings (Qty 50)	-	■	■	■	CBLPF-BR

Universal 19″ clip in blanking panels	Height U	SRS	ARS	DRS	Order Code
Universal clip in blanking panel	1U	■	■	■	ETN-PBP1U10
	2U	■	■	■	ETN-PBP2U10
	8U	■	■	■	ETN-PBP8U10

Base blanking options	Width mm	Depth mm	SRS	ARS	DRS	Order Code
DRS - base blanking kit	600	875	-	-	■	D3BB0608
		1000	-	-	■	D3BB0610
		1200	-	-	■	D3BB0612
		1400	-	-	■	D3BB0614
DRS - base blanking frame	800	875	-	-	■	D3BB0808
		1000	-	-	■	D3BB0810
		1200	-	-	■	D3BB0812
		1400	-	-	■	D3BB0814

Thermal management accessories

Rack air baffles	Height U	Depth mm	Colour	SRS	ARS	DRS	Order Code
SRS - vertical baffles with grommets baffles (pair)	42U	600	Silver	■	-	-	SRSVBPA42U6W
	47U			■	-	-	SRSVBPA46U6W
	42U	800		■	-	-	SRSVBPA42U8W
	47U			■	-	-	SRSVBPA47U8W
SRS - top & bottom baffle kit	-	600		■	-	-	SRSTBBK6W
	-	800		■	-	-	SRSTBBK8W
ARS - vertical brush strip baffles (pair)	42U	600	Grey	-	■	-	ACVBPA426A
	47U			-	■	-	ACVBPA476A
	52U			-	■	-	ACVBPA526A
	42U	600	Black	-	■	-	ACVBPA426B
	47U			-	■	-	ACVBPA476B
	52U			-	■	-	ACVBPA526B
	42U	800	Grey	-	■	-	ACVBPA428A
	47U			-	■	-	ACVBPA478A
	52U			-	■	-	ACVBPA528A
	42U	800	Black	-	■	-	ACVBPA428B
	47U			-	■	-	ACVBPA478B
	52U			-	■	-	ACVBPA528B
ARS - top & bottom baffle kit	-	600	Silver	-	■	-	ATBAB6W
	-	800		-	■	-	ATBAB8W
DRS - vertical air baffle kit	42U	600	Silver	-	-	■	D3VBK42600
	47U			-	-	■	D3VBK47600
	52U			-	-	■	D3VBK52600
	42U	800	Silver	-	-	■	D3VBK42800
	47U			-	-	■	D3VBK47800
	52U			-	-	■	D3VBK52800
DRS - top & bottom baffle kit	-	600	Silver	-	-	■	D3HBK600
	-	800		-	-	■	D3HBK800

Thermal management accessories

2 way roof unit

3 way roof unit

3 way rack unit

6 way rack unit

scavanger rack unit

Roof mounted fan trays		Width mm	Colour	SRS	ARS	DRS	Order Code
Roof mounted fan tray 220/230v complete with UK lead	SRS - 2-Way	600	Grey	■	-	-	SRFT2W2VDL
		800	Black	■	-	-	SRFT2W2VDB
	SRS - 3-Way	600	Grey	■	-	-	SRFT3W2VDL
		800	Black	■	-	-	SRFT3W2VDB
Roof mounted fan tray 220/230v complete with UK lead	ARS - 2-Way	600	Grey	-	■	-	A6FTL
		800		-	■	-	A8FTL
	ARS - 3-Way	600		-	■	-	A6FT3L
		800		-	■	-	A8FT3L
	ARS - 2-Way	600	Black	-	■	-	A6FTLB
		800		-	■	-	A8FTLB
	ARS - 3-Way	600		-	■	-	A6FT3LB
		800		-	■	-	A8FT3LB
Roof mounted fan tray 220/230v complete with UK lead	DRS - 2-Way	600	Grey	-	-	■	D3FTS062W2VDL
		800		-	-	■	D3FTS082W2VDL
	DRS - 3-Way	600		-	-	■	D3FTS063W2VDL
		800		-	-	■	D3FTS083W2VDL
	DRS - 2-Way	600	Black	-	-	■	D3FTS062W2VDB
		800		-	-	■	D3FTS082W2VDB
	DRS - 3-Way	600		-	-	■	D3FTS063W2VDB
		800		-	-	■	D3FTS083W2VDB
Roof mounted fan tray 220/230v complete with UK lead	SRS - 2-Way thermostatically controlled	600	Grey	■	-	-	ARSFTT062W2VDL
		800	Black	■	-	-	ARSFTT063W2VDB
	SRS - 3-Way thermostatically controlled	600	Grey	■	-	-	ARSFTT062W2VDL
		800	Black	■	-	-	ARSFTT063W2VDB
Roof mounted fan tray 220/230v complete with UK lead	ARS - 2-Way thermostatically controlled	600	Grey	-	■	-	ARSFTT062W2VDL
		800		-	■	-	ARSFTT082W2VDL
	ARS - 3-Way thermostatically controlled	600		-	■	-	ARSFTT063W2VDL
		800		-	■	-	ARSFTT083W2VDL
	ARS - 2-Way thermostatically controlled	600	Black	-	■	-	ARSFTT062W2VDB
		800		-	■	-	ARSFTT082W2VDB
	ARS - 3-Way thermostatically controlled	600		-	■	-	ARSFTT063W2VDB
		800		-	■	-	ARSFTT083W2VDB
Roof mounted fan tray 220/230v complete with UK lead	DRS - 2-Way thermostatically controlled	600	Grey	-	-	■	D3FTT062W2VDL
		800		-	-	■	D3FTT082W2VDL
	DRS - 3-Way thermostatically controlled	600		-	-	■	D3FTT062W2VDL
		800		-	-	■	D3FTT083W2VDL
	DRS - 2-Way thermostatically controlled	600	Black	-	-	■	D3FTT062W2VDB
		800		-	-	■	D3FTT082W2VDB
	DRS - 3-Way thermostatically controlled	600		-	-	■	D3FTT063W2VDB
		800		-	-	■	D3FTT083W2VDB

Universal 19" rack mounted fan trays	Height U	Colour	SRS	ARS	DRS	Order Code
Universal 3-Way standard fan tray & uk lead - (220/230v)	1U	Grey	■	■	■	IVU3L
		Black	■	■	■	IVU3BL
Universal 6-Way standard fan tray & uk lead - (220/230v)	1U	Grey	■	■	■	IVU6L
		Black	■	■	■	IVU6BL
Universal scavanger fan tray & uk lead - (220/230v)	2U	-	■	■	■	RMHPFU230
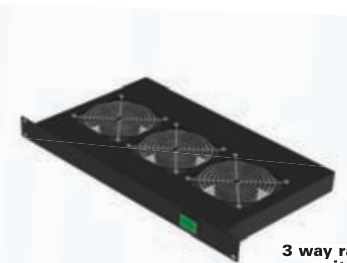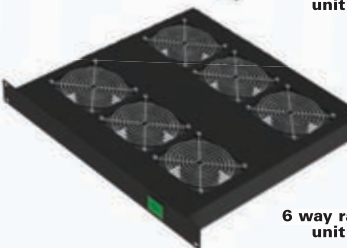
Thermal management accessories

Roof mounted return air ducts

A simple, scalable solution to more effectively manage the ever-increasing heat loads in today's Data Centre. This design mounts easily onto the SRS, ARS and DRS rack systems.

Combining the roof mounted return air duct with the in-rack air management ensures that the hot exhaust air, from the IT equipment, is contained in the rear of the rack avoiding recirculation. The return air duct directs the exhaust air from the rack to room air conditioners via a plenum ceiling or return duct work.

FEATURES

- Retro fitted onto standard rack configurations
- 600W and 800W options
- Replaces a single full size top panel
- Adjustable in height from 460mm - 840mm
- Available in grey and black
- Ships flat packed for easy on-site assembly

SRS

ARS

DRS

Roof mounted return air ducts	Width mm	Colour	SRS	ARS	DRS	Order Code
SRS - roof mounted return air duct kits	600	Grey	■	-	-	SR6TPCHIM250L
		Black	■	-	-	SR6TPCHIM250B
	800	Grey	■	-	-	SR8TPCHIM250L
		Black	■	-	-	SR8TPCHIM250B
ARS - roof mounted return air duct kits	600	Grey	-	■	-	A6TPCHIM250A
		Black	-	■	-	A6TPCHIM250B
	800	Grey	-	■	-	A8TPCHIM250A
		Black	-	■	-	A8TPCHIM250B
DRS - roof mounted return air duct kits	600	Grey	-	-	■	D36TPCHIM250L
		Black	-	-	■	D36TPCHIM250B
	800	Grey	-	-	■	D38TPCHIM250L
		Black	-	-	■	D38TPCHIM250B

SRS - 600W duct fits directly to 800W roof panel - no adapter required
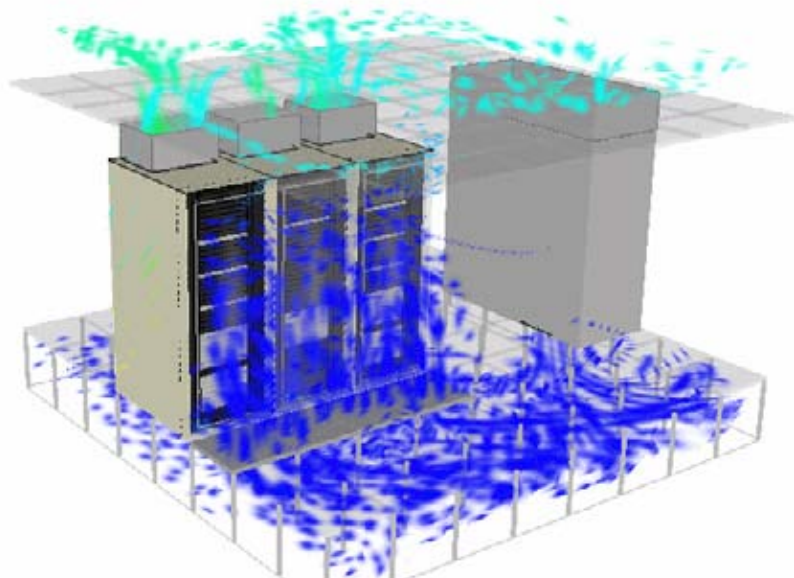
Thermal management accessories

In-rack heat exchangers

In-rack heat exchangers are ideal for rooms with either solid or raised floors. Providing true flexibility, the units remove the need to pre-plan or over provision cooling at day one, avoiding unnecessary capital expenditure. Their design allows users the ability to scale the cooling provision to match demand, helping to reduce operational costs whilst offering optimal efficiency. B-Line's in-rack solutions provides the perfect balance, optimising users CAPEX and OPEX demands.

Duties vary according to supply temperatures. Normal operation is based on a "coolant on" temperature of 12°C and a "coolant off" temperature of 16°C. Designed to mount within the 19" aperture in racks with a minimum rack depth of 1000mm, the coolers can be mounted into B-Line's entire rack range as well as third party racks.

Floor kit

60kW

30kW

10kW

70kW

35kW

Universal high density standard width server cooler kit

Description	Rating	Voltage	Mounting U	Min rack depth	Colour	SRS	ARS	DRS	Order Code
Air/water floor mounted server cooler kit	10kW	220/ 230v AC	11U	1000 mm	Black	■	■	■	SC10KWK
	30kW		20U			■	■	■	SC30KWK
	60kW		29U			■	■	■	SC60KWK

Floor mounting kits comprise of:
- floor mounting frame (compatible with SRS, ARS, DRS rack platforms)
- server cooler unit and coupling brackets
- 3m EPDM over-braided flexible hose (pair - supply/return)
- controller connection lead
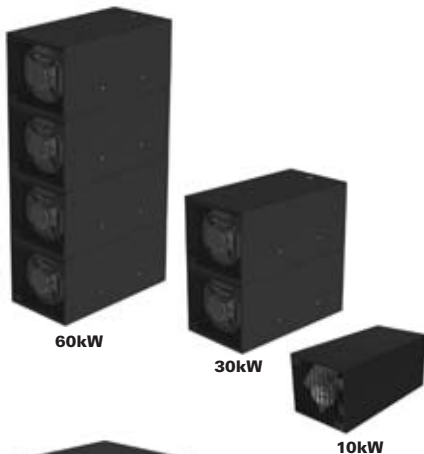
Universal high density standard width server cooler expansion kit

Description	Rating	Voltage	Mounting U	Min rack depth	Colour	SRS	ARS	DRS	Order Code
Air/water floor mounted server cooler kit	10kW	220/ 230v AC	9U	1000 mm	Black	■	■	■	SC10KWEK
	30kW		18U			■	■	■	SC30KWEK
	60kW		27U			■	■	■	SC60KWEK

Expansion kits comprise of:
- server cooler unit and coupling brackets
- 3m EPDM over-braided flexible hose (pair - supply/return)
- controller connection lead

Universal high density full width server cooler kit (800W rack only)

Description	Rating	Voltage	Mounting U	Min rack depth	Colour	SRS	ARS	DRS	Order Code
Air/water full width floor mounted server cooler kit	35kW	220/ 230v AC	20U	1000 mm	Black	■	■	■	SC35KWK
	75kW		38U			■	■	■	SC77KWK

Floor mounting kits comprise of:
- floor mounting frame (compatible with SRS, ARS, DRS rack platforms)
- server cooler unit and coupling brackets
- 3m EPDM over-braided flexible hose (pair - supply/return)
- controller connection lead

Thermal management accessories

Universal high density server cooler control modules

Description	Units	Voltage	Mounting U	Min rack depth	Colour	SRS	ARS	DRS	Order Code
19" mounted server cooler control module	2	220/230v AC	4U	1000 mm	Black	■	■	■	SCCM2
	4		4U			■	■	■	SCCM4

Controller kits comprise of:
- 19" x 4U rack mounted control unit
- controller power lead (IEC C19 to UK)

Control module

Universal high density server cooler accessories

Description	Mounting U	Min rack depth	Colour	SRS	ARS	DRS	Order Code
10kW server cooler extension shroud	9U			■	■	■	SC10KWES
30kW server cooler extension shroud	18U	1200	Black	■	■	■	SC30KWES
60kW server cooler extension shroud	27U			■	■	■	SC60KWES
Server cooler floor mounting kit	-	1000		■	■	■	SCMK
10kW / 30kW / 60kW server cooler braided hose kit (pair)	-	-	-	■	■	■	SCFHA1
35kW / 75kW server cooler braided hose kit (pair)	-	-	-	■	■	■	SCFHA2

Thermal management accessories

Floor grommets

By sealing gaps around pipe work or cabling infrastructure, floor grommets reduce air loss and leakage, eliminating the possibility of the hot air return mixing with the cold air feed.

GTAG3

GTAG1

Floor grommets

Size		Cutout Size		Colour	SRS	ARS	DRS	Order Code
Width mm	Height mm	Width mm	Height mm					
328	162	265	115		■	■	■	GTAG1
250	250	200	200		■	■	■	GTAG3
Ø233		Ø209		Black	■	■	■	GT085
Ø185		Ø169			■	■	■	GT065
Ø140		Ø127			■	■	■	GT005
Ø114		Ø102			■	■	■	GT003

Shelving accessories

Chassis runners	Load kgs	Depth mm	Colour	SRS	ARS	DRS	Order Code
Chassis runners - pair	35	390	Silver	■	-	-	NRACR39
		450		■	-	-	NRACR45
		580		■	-	-	NRACR58
		620		■	-	-	NRACR62
Chassis runner - pair	35	390		-	■	■	CR39
		450		-	■	■	CR45
		580		-	■	■	CR58
		620		-	■	■	CR62

Cantilever shelves	Load kg	Depth mm	Colour	SRS	ARS	DRS	Order Code
1U Ventilated cantilever shelf	35	190	Black	■	■	■	MS19B
		300		■	■	■	MS30B
2U Ventilated cantilever shelf		400		■	■	■	MS40B
3U Ventilated cantilever shelf				■	■	■	MS403B

Fixed shelves	Load kg	Depth mm	Colour	SRS	ARS	DRS	Order Code
Fixed shelf	35	450	Black	■	■	■	SV45B
		580		■	■	■	SV58B
		620		■	■	■	SV62B
		720		■	■	■	SV72B
Quick fit 19" fixed shelf	35	350		■	■	■	QRSV35B
		450		■	■	■	QRSV45B
		550		■	■	■	QRSV55B
		650		■	■	■	QRSV65B
		750		■	■	■	QRSV75B
Quick fit full width fixed shelf	35	450		■	■	■	QRSVFW45B
		550		■	■	■	QRSVFW55B
		650		■	■	■	QRSVFW65B
		750		■	■	■	QRSVFW75B

Standard sliding shelves	Load kg	Depth mm	Colour	SRS	ARS	DRS	Order Code
19" Sliding shelf	50	450	Black	■	■	■	LDATSV45B
		550		■	■	■	LDATSV55B
		700		■	■	■	LDATSV70B

Fixed adjustable shelves	Width mm	Load kg	Depth mm	Colour	SRS	ARS	DRS	Order Code
Standard duty universal fixed adjustable depth shelf 1U high	450	45	750	Black	■	■	■	SDFAS1U45B
Heavy duty universal fixed adjustable depth shelf 1U high	450	45	750		■	■	■	HDFAS1U45B
	650		950		■	■	■	HDFAS1U65B
Heavy duty universal fixed adjustable depth full width shelf 1U high	450	45	750		■	■	■	HDFAFW-S1U45B

Heavy duty sliding shelves	Load kg	Depth mm	Colour	SRS	ARS	DRS	Order Code
Heavy duty 19"sliding shelf	100/250	450	Black	■	■	■	QRTSV45B
		600		■	■	■	QRTSV60B
		750		■	■	■	QRTSV75B
Heavy duty full width sliding shelf	125	450		■	■	■	QRTSVFW45B
		600		■	■	■	QRTSVFW60B
		750		■	■	■	QRTSVFW75B

Keyboard shelf	Load kg	Colour	SRS	ARS	DRS	Order Code
Keyboard shelf	35	Black	■	■	■	KT750B

Small server boot

Server boots with extension rails
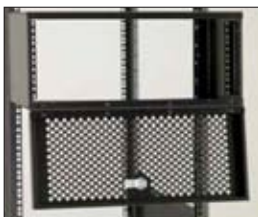
Large server boots

Patch panel protectors

Security accessories

At B-Line, we know that it is critical to protect your equipment and network. That's why our range of security products provide an easy to implement solution for physical layer security for all IT applications.

B-Line Rack Patch Panel Protectors and Server Boots provides a low cost option for your next Data Centre project.

Features:

- **Secure access**
  Hardware attaches inside the enclosure and is not accessible when door is locked.
- **Easy access control**
  Access requires only the key, eliminating the need for special equipment or passwords and access codes.
- **Visibility**
  Mesh doors provide equipment visibility and air delivery whilst locked.
- **Retrofit**
  Can be installed on racks with existing equipment.
- **Bend radius protection**
  Patch panel protectors come with special drop outs to protect cable bend radius.

Server boots

Eaton's B-Line Business rack security server boots are designed to help restrict access to 1U, 2U, 4U, 5U or 20U servers, and can work with any rack or enclosure application.

- Limits access to server
- Designed for shallow equipment that does not extend in front of the rack
- Suitable for DVR applications and switches
- Fully enclosed top, bottom, and sides
- All front server attachment hardware is enclosed inside server boot
- Deep enclosure extends out in front of the rack for patching and gear on 5U and 20U sizes
- Keys are keyed alike
- Each includes: One server boot enclosure with lock and two keys
- Finish: Black

Server boots	Height U	SRS	ARS	DRS	Order Code
Universal 19" mounted server boot	1U	▪	▪	▪	EUSBSB001FB
	2U	▪	▪	▪	EUSBSB002FB
	4U	▪	▪	▪	EUSBSB004FB
	5U	▪	▪	▪	EUSBSB005FB
	20U	▪	▪	▪	EUSBSB020FB

Security accessories

Server boots with extension rails

B-Line also offers rack security server boots with extension rails (2) to cater for sliding server systems.

Server boots with extensions	Height U	Depth mm	SRS	ARS	DRS	Order Code
Universal 19" mounted server boot with extension rails	5U	330	■	■	■	EUSBSBE0413FB
		455	■	■	■	EUSBSBE0418FB
	7U	330	■	■	■	EUSBSBE0613FB

Patch panel protectors

B-Line's rack security patch panel protectors help restrict unauthorised access to 1U or 4U patch panels by fully enclosing the front of the panel and the adjacent rack space.

- Limits access to 1U or 4U patch panel
- Fully enclosed top and bottom
- All front patch panel hardware is enclosed inside patch panel
- Keys are keyed alike
- Openings on side for cable exit
- Drop outs included to support cable bend
- Each includes: One patch panel protector enclosure with lock, two keys and two plastic drop outs
- Supplied with mounting hardware
- Finish: black

Patch panel protectors	Height U	SRS	ARS	DRS	Order Code
Universal 19" mounted patch panel protector	3U	■	■	■	EUSBSPP01FB
	6U	■	■	■	EUSBSPP04FB

Other security products

Contained aisle POD systems

Security cages

Privacy enclosure

Power distribution

Enclosure power distribution units

Eaton ePDUs are enclosure based Power Distribution Units, designed to provide reliable, cost-effective power distribution together with highly accurate monitoring and control for Data Centre IT equipment. Eaton ePDUs enable the Data Centre manager to:

• Optimise and utilise all available power

• Control the operational expenditure involved in running a Data Centre

• Effectively manage and plan for new and existing infra-structure.

Maximise and manage available power by choosing your required level of monitoring and control – with true V, W, kWh and A (1% accuracy above 2A) consumption monitoring to enable you to track, trend, analyse and utilise all your available power.

Eaton ePDUs give you complete control of your power distribution and consumption. Remote and secure individual outlet switching allows control over individual outlets as well as customised groups of outlets and branch circuits, together with sequencing outlets with programmable delays. It is also possible to remotely reboot outlets and outlet groups for remote restart of servers and related equipment.

FlexPDUs & HotSwap MBP

FlexPDUs allow you to easily add supplemental Schuko or IEC output sockets. The HotSwap maintenance bypass enables you to bypass the UPS for servicing without powering off IT equipment – while providing IEC or Schuko output sockets to your IT equipment.

Eaton intelligent rack PDUs and maintenance bypass units - 1 phase

Features		Managed ePDU	Advanced monitored ePDU	Switched ePDU	Monitored ePDU	Basic ePDU	Flex PDU	HotSwap MBP
Monitoring	Branch	■	■	■	■	-	-	-
	Outlet	■	■	-	-	-	-	-
	kWhrs	■	■	■	-	-	-	-
	Voltage	■	■	■	-	-	-	-
	Watts	■	■	■	-	-	-	-
	Ampere	■	■	■	■	-	-	-
Control	Ethernet	■	■	■	■	-	-	-
Switching	Remote	■	-	■	-	-	-	-

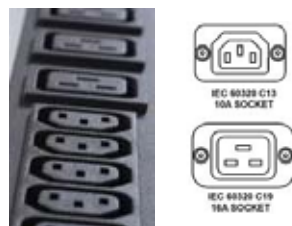# Power distribution

Input	Ampere	Outlet quantity	Mounting	Breakers	Managed ePDU	Advanced monitored ePDU	Switched ePDU	Monitored ePDU	Basic ePDU	Flex PDU	HotSwap MBP
C14	10A	C13, 16	Vertical	-	eMAA10	eAMA06	eSWA01	PW102MI0UB95	ePBZ05	-	-
C20	16A	C13, 20 : C19, 4	Vertical	-	eMAA11	eAMA07	eSWA02	PW104MI0UB96	ePBZ32	-	-
IEC60309	16A	C13, 20 : C19, 4	Vertical	2 single pole	eMAA12	eAMA08	eSWA03	PW104MI0UB97	ePBZ33	-	-
IEC60309	32A	C13, 20 : C19, 4	Vertical	-	eMAA13	eAMA09	eSWA04	PW107MI0UB88	ePBZ31	-	-
C14	10A	Schuko, 16	Vertical	-	-	-	-	PW102MI0UC73	-	-	-
C20	16A	C13, 18 : C19, 2	Vertical	-	-	-	-	PW104MI0UD02	-	-	-
C20	16A	Schuko, 20 : C19, 4	Vertical	-	-	-	-	PW104MI0UC74	-	-	-
Schuko	16A	Schuko, 16	Vertical	-	-	-	-	PW104MI0UC72	-	-	-
IEC60309	16A	C13, 18 : C19, 2	Vertical	-	-	-	-	PW104MI0UD03	-	-	-
IEC60309	16A	Schuko, 20 : C19, 4	Vertical	2 single pole	-	-	-	PW104MI0UC76	-	-	-
IEC60309	32A	Schuko, 20 : C19, 4	Vertical	2 single pole	-	-	-	PW107MI0UC75	-	-	-
IEC60309	32A	C13, 36 : C19, 6	Vertical	-	-	-	-	PW107MI0UC60	-	-	-
C14	10A	C13, 8	Vertical	-	-	-	-	-	ePBZ01	-	-
C14	10A	C13, 12	Vertical	-	-	-	-	-	ePBZ02	-	-
C20	16A	C13, 12	Rack (1U)	-	-	-	-	-	ePBZ04	-	-
C20	16A	C13, 16	Vertical	-	-	-	-	-	ePBZ03	-	-
C20	16A	C13, 10 : C19,	2 Rack (1U)	-	-	-	-	-	ePBZ06	-	-
Schuko	16A	Schuko, 4	Vertical	-	-	-	-	-	ePBZ25	-	-
Schuko	16A	Schuko, 8	Vertical	-	-	-	-	-	ePBZ26	-	-
Schuko	16A	Schuko, 12	Vertical	-	-	-	-	-	ePBZ27	-	-
C20[2]	16A	Schuko, 8 C19, 1	Rack (1U)	2 breakers	-	-	-	-	-	-	-
C20[2]	16A	C13, 12; C19, 1	Rack (1U)	-	-	-	-	-	-	-	-
C20[3]	16A	Schuko, 4 : C19, 1	Rack (1.5U)	1 breaker	-	-	-	-	-	-	-
C20[3]	16A	C13, 6; C19, 1	Rack (1.5U)	-	-	-	-	-	-	-	68433
HW	16A	Terminal block	Rack (1.5U)	-	-	-	-	-	-	-	69434

[2] 1% accuracy above 2A, 2 1 x IEC C20 (16A) connector and 2 cables (1 IEC 16A - 16A cable and 1 IEC 10A - 16A cable for connection to any UPS
[3] 1 x IEC C20 (16A) connector, and 1 x IEC 16A cable, and use cable kit P/N 68 439 (Schuko) for connecting UPSs up to 2200VA (with IEC 10A C13 output).

Schuko

C13 & C19

Power distribution

Switched PDU	SRS	ARS	DRS	Order Code
Universal PDU mounting kit	■	■	■	UPDUMK

Basic single phase horizontal PDU - IEC sockets	SRS	ARS	DRS	Order Code
Basic IEC - 1U - 16A - In: C20 - Out: C13 (12)	■	■	■	ePBZ04
Basic IEC - 1U - 16A - In: C20 - Out: C13 (10) : C19 (2)	■	■	■	ePBZ06

Basic single phase horizontal PDU - UK sockets				
Basic UK - 1U - 13A - In: UK - Out: UK (4)	■	■	■	ePBZ20
Basic UK - 1U - 13A - In: UK - Out: UK (6)	■	■	■	ePBZ21

Basic single phase vertical PDU - IEC sockets				
Basic IEC - 0U - 10A - In: C14 - Out: C13 (8)	■	■	■	ePBZ01
Basic IEC - 0U - 10A - In: C14 - Out: C13 (12)	■	■	■	ePBZ02
Basic IEC - 0U - 16A - In: C20 - Out: C13 (16)	■	■	■	ePBZ03
Basic IEC - 0U - 10A - In: C14 - Out: C13 (16)	■	■	■	ePBZ05
Basic IEC - 0U - 32A - In: IEC309 32A - Out: C13 (20)	■	■	■	ePBZ31
Basic IEC - 0U - 16A - In: IEC309 16A - Out: C13 (20)	■	■	■	ePBZ32
Basic IEC - 0U - 16A - In: C20 - Out: C13 (20) : C19 (4)	■	■	■	ePBZ33

Basic single phase vertical PDU - UK sockets				
Basic UK - 0U - 13A - In: UK - Out: UK (8)	■	■	■	ePBZ22
Basic UK - 0U - 13A - In: UK - Out: UK (10)	■	■	■	ePBZ23
Basic UK - 0U - 13A - In: UK - Out: UK (12)	■	■	■	ePBZ24
Basic IEC - 0U - 16A 3Ph - In: IEC309 16A 3P - Out	■	■	■	PW312BA0UC07
Basic IEC - 0U - 32A 3Ph - In: IEC309 32A 3P - Out	■	■	■	PW322BA0UC56
Basic IEC - 0U - 3A2 3Ph - In: IEC309 32A 3P - Out	■	■	■	PW322BA0UC57

Basic 3-phase vertical PDU - IEC sockets monitored single phase vertical PDU - IEC sockets				
Monitored IEC - 0U - 10A - In: C14 - Out: C13 (16)	■	■	■	PW102MI0UB95
Monitored IEC - 0U - 16A - In: IEC309 16A - Out: C13 (20) : C19 (4)	■	■	■	PW104MI0UB96
Monitored IEC - 0U - 16A - In: C20 - Out: C13 (20) : C19 (4)	■	■	■	PW104MI0UB97
Monitored IEC - 0U - 32A - In: IEC309 32A - Out: C13 (20) : C19 (4)	■	■	■	PW107MI0UB88
Monitored IEC - 0U - 32A - In: IEC309 32A - Out: C13 (36) : C19 (6)	■	■	■	PW107MI0UC60
Monitored IEC - 0U - 16A - In: C20 - Out: C13 (18) : C19 (2)	■	■	■	PW104MI0UD02
Monitored IEC - 0U - 16A - In: IEC309 16A - Out: C13 (18) : C19 (2)	■	■	■	PW104MI0UD03
Monitored IEC - 0U - 16A - In: IEC309 16A 3P - Out: C13 (36) : C19 (6)	■	■	■	PW312MI0UC07

Advanced monitored single phase vertical PDU - IEC sockets				
Adv. Monitored IEC - 0U - 10A - In: C14 - Out: C13 (16)	■	■	■	eAMA06
Adv. Monitored IEC - 0U - 16A - In: IEC 60309 16A - Out: C13 (20) : C19 (4)	■	■	■	eAMA07
Adv. Monitored IEC - 0U - 16A - In: C20 - Out: C13 (20) : C19 (4)	■	■	■	eAMA08
Adv. Monitored IEC - 0U - 32A - In: IEC60309 32A - Out: C13 (20) : C19 (4)	■	■	■	eAMA09

Advanced monitored single phase vertical switched PDU - IEC sockets				
Switched IEC - 0U - 10A - In: C14 - Out: C13 (16)	■	■	■	eSWA01
Switched IEC - 0U - 16A - In: IEC 60309 16A - Out: C13 (20) : C19 (4)	■	■	■	eSWA02
Switched IEC - 0U - 16A - In: C20 - Out: C13 (20) : C19 (4)	■	■	■	eSWA03
Switched IEC - 0U - 32A - In: IEC60309 32A - Out: C13 (20) : C19 (4)	■	■	■	eSWA04

Switched 3-phase vertical PDU - IEC sockets				
Switched IEC - 0U - 16A 3P - In: IEC309 16A 3P Out: C13 (21) : C19 (3)	■	■	■	eSWA05

Basic **Monitored**

Switched

Power distribution

Uninterruptable Power Systems (UPS)

Regardless of your needs, the depth and breadth of Eaton's product range ensures the right UPS power protection for your application.

Eaton's UPSs are well known for offering the highest possible quality, reliability and state of the art performance, all in best-inclass power density form factor (1U - 6U). LCD interfaces provide quick and easy access to key measurement information and advanced parameters, while Network Management Cards enable powerful remote monitoring. High efficiencies and advanced Ecomodes guarantee cost effective operation, and Eaton's unique integration with VMWare, Hyper-V and Citrix make our UPSs the ideal choice for virtualised Data Centres.

Ellipse PRO	5P	5PX	9130	9PX

UPS Overview		Ellipse PRO	5P	5PX	9130	9SX, 9PX
kVA		0.6 - 1.6	0.6 - 1.6	1.5 - 3.0	1.0 - 3.0	5.0 - 11.0
kW		0.4 - 1.0	0.4 - 1.1	1.35 - 2.7	0.9 - 2.7	4.5 - 10.0
Mounting	Rack	✔ (2U)	✔ (1U)	✔ (2U)	✔ (2U)	✔ (3-6U)
	Tower	✔	✔	✔	✔	✔
Technology	Line-Interactive	✔	✔	✔	-	-
	ON-Line double conversion	-	-	-	✔	✔
Efficiency	High efficiency mode	-	-	✔	✔	✔
Service continuity	HotSwappable	✔[1]	✔[1]	✔[1]	✔[1,2]
	HotSwappable batteries	✔	✔	✔	✔
Monitoring software with integration in virtualisation consoles		✔	✔	✔	✔
Managed shutdown software compatible with virtualised environment		✔	✔	✔	✔
Manageable outlets	Load segments	✔	✔	✔	✔
Measure power consumption Per group of outlets			✔	-	✔
Battery	Back-up time - 50%					
	Back-up time - Extended					
Communication	Network Management Card		✔[1]	✔[1]	✔[1]	✔[1]
	USB	✔	✔	✔	✔	✔
	RS232			✔	✔	✔
Input : Output Power	1ph : 1ph	✔	✔	✔	✔	✔
Input connection	Plug & Play (P&P), Hardwired (HW)	P&P	P&P	P&P	P&P	HW
	IEC C14 10A	4 - 8[2]	4 - 8[2]	8	4 - 8[2]	4[2]
	Schuko	4 - 8[2]				
	IEC C20 16A			1[2]	1[2]	2[2]
Output connection[3]	Plug & Play (P&P), Hardwired (HW)	P&P	P&P	P&P	P&P	P&P, HW[2]
	IEC C13 10A	4-8[2]	4-8[2]	8	6-8[2]	4[2]
	Schuko	4-8[2]				
	IEC C19 16A			1[2]	1[2]	2[2]
Part Numbers[2]	IEC Output Connections	650VA ELP650IEC	650VA SP650iR	1500VA 5PX1500iRT	1000VA 103006455	5KVA 9SX5KiRTN
		850VA ELP850IEC	850VA SP850iR	2200VA 5PX2200iRT	1500VA 103006456	6KVA 9SX6KiRTN
		1200VA ELP1200IEC	1150VA SP1150iR	3000VA 5PX3000iRT3U	2000VA 103006457	8KVA 9SX8KiRTNBP
		1600VA ELP1600IEC	1550VA SP1550iR	-	3000VA 103006463	11KVA 9SX11KiRTNBP
	Schuko Output Connections	600VA ELP650DIN				
		850VA ELP850DIN				
		1200VA ELP1200DIN				
		1600VA ELP1600DIN				

[1] Option   [2] Varies by model   [3] Connections differ when using MBP   Note: Rack mounting kit not included Ellipse PRO, 9SX/9PX

Power distribution

Monitoring your IT infrastructure

There are many factors that affect the availability of IT systems, including power, temperature, and sudden events like intrusion, flooding or fire to name a few.
In many cases damage can be minimised or completely avoided if alarms are received promptly.

Eaton offers the necessary monitoring options and software to maximise the up-time of critical IT.
Uninterruptible power systems are designed to protect your IT equipment from power anomalies, including surges, sags and frequency variations. But when the power goes out for longer than your available battery runtime, Intelligent Power Software allows automatic actions including graceful shutdown of computers, relocation of virtual machines or disaster recovery plans.

Link to IT systems and virtualisation

Intelligent Power Manager is a productivity tool for administrators of several power devices and shutdown applications. It delivers the big picture and highlights key factors by concentrating information from multiple sources and displaying it in a single view. It also centralises alarm propagation ensuring important events are brought to the attention of those who need to know.

Intelligent power software

- Intelligent power manager for monitoring and managing power equipment in IT environments reduces total cost of ownership for the whole monitoring system.
- Plugs into VMware vCenter, Microsoft SCVMM and Citrix XenCenter with the ability to trigger live migration of virtual machines.
- Intelligent Power Protector for graceful shutdown of operating systems and VMware ESXi, Microsoft Hyper-V, Citrix XenServer and RedHat KVM hypervisors

Use each piece of software independently or as a powerful combination. Together with your UPS, and ePDUs they provide end to end power management for maximum uptime and data integrity.

Network card for UPS

- Intuitive, Cloud / Virtual Computing-based user interface
- Alerts via email and mobile devices minimise downtime
- Stores events and values in logs for analysis
- Connection to monitoring systems like SpiceWorks, Nagios, CiscoWorks and many others. Multilingual interface with automatic recognition of browser language.

Environmental monitoring probe

- Connects to ePDUs and UPS web cards
- Adds temperature and humidity monitoring and two configurable status inputs.

Network Card

Environmental Monitoring Probe

Eaton IPP and IPM Software Licenses

Devices	0-9	10-99	100+
IPP	Free	Free	Free
IPM	Free	Silver P/N 66925	Gold P/N 66926

Rack intelligence

Today's businesses are becoming more and more reliant on their IT infrastructure to sustain a competitive edge. Businesses are therefore looking to maximise their capital investments in IT systems by striving to achieve 100% network availability. "Human Error" remains the largest threat to network integrity. Something as simple as incorrect or unauthorised modification to cable patching can cause systems to fail resulting in lost time and lost revenues. The first line of defence is therefore the proactive control of who has access to the infrastructure and when!

Whilst building control systems have been developed to manage room access, historically rack level security has been managed with conventional barrel key locks. On larger sites this has required the adoption of complex and time-consuming systems to manage the authorisation of personnel and the issuing of keys. Even with these elaborate processes in place the risk from the loss of keys, not to mention the potential.

Partnering with Austin Hughes, B-Line offers a choice of scalable integrated solutions. The following section gives an overview of the options available under each system platform, helping users to identify the platform which best suits their requirements.

Access control	InfraSoluon S™	InfraSoluon S™	InfraGuard™	InfraSoluon X™
Hid access control	■	■	-	■
Mifare access control	■	■	-	■
Stand alone operation	■	■	-	-
Rack mounted controller	-	-	■	■
Networked configuration	-	-	■	■
Number of user / handle	50	50	-	50
Local data connection	-	■	-	-
Network connection & central	-	-	■	■

vibration   smoke   humidity   PDU control   fan control   security   water   temperature

Accessories in-rack

Rack intelligence

Environmental monitoring	InfraSolution S™	InfraSolution S™	InfraGuard™	InfraSolution X™
Single system cascade limit	1	500	16	1
User interface	-	*web based gui		
Location inductive sensor	-	-	■	■
Mechanical door switch	-	-	■	■
Lamp activated on door open	-	-	■	■
Shock sensors	-	-	■	■
Temperature & humidity	-	-	-	-
Sensors	-	-	■	■
Temperature sensors	-	-	■	■
Smoke sensor	-	-	■	■
Leak sensor	-	-	■	■
Normally open /closed	-	-	■	■
Alarm board output	-	-	■	■
Flashing LED beacon	-	-	■	■

Power management

	InfraSolution S™	InfraSolution S™	InfraGuard™	InfraSolution X™
Integrated PDU connection	-	-	■	■
Maximum number of concurrent users	1	1	5	10
PDU cascade limit	-	-	4	4
W series PDU compatible	-	-	■	■
Ws series PDU compatible	-	-	■	■
Wi series PDU compatible	-	-	■	■
Wsi series PDU compatible	-	-	■	■

Rack platform compatibility

	InfraSolution S™	InfraSolution S™	InfraGuard™	InfraSolution X™
SRS	■	■	■	■
ARS	■	■	■	■
DRS	■	■	■	■

vibration   smoke   humidity   PDU control   fan control   security   water   temperature

Rack intelligence

InfraSolution S™

Rack level access security has become critically important for all data centres and server rooms. More and more IT managers have recognised this need and are upgrading their racks with smartcard access control. To meet the increasing needs, Austin Hughes offers the InfraSolution Standalone Smart Card Handle at an affordable price. The Smart Card handles are available with MIFARE or HID Proximity readers. The handles are fully compatible with the SRS, ARS and DRS platforms, offering a seamless upgrade path.

Once installation of the handles is complete the only thing left to do is to program your additional Smart Cards, each swipe card must be programmed to each individual handle and will only allow access to the handles that it has been programmed to.

For further security, handles can be programmed to only accept dual authorisation, this requires two Smart Cards to be presented to the handle before the door is unlocked.

Note: Handles available to suit either left hand or right hand hinged doors
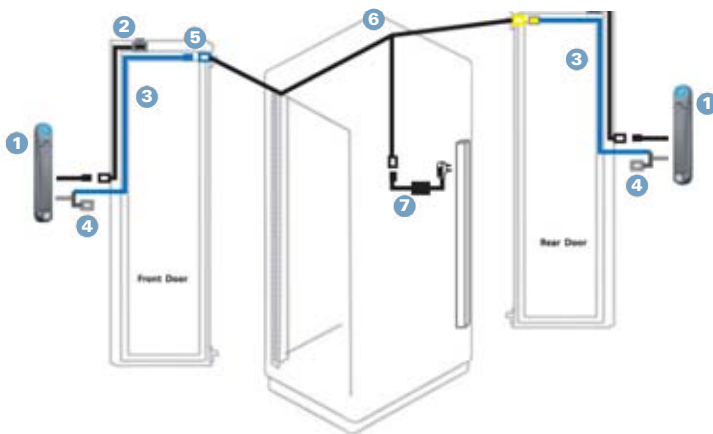
Easy installation

1 S-800P Proximity or S-800M MiFARE smartcard handle : **2 3 4**
2pcs for front & rear door, with cables to connect

2 Optional door sensor with cable : 2pcs for front & rear door (2m)

3 Power cable (door section) : 2pcs for front & rear door (2m)

4 Data input connector (for handle activation / data input / configuration)

5 Joint connector of **3** & **6**

6 Y-Power cable (rack section)

7 Universal Auto switching 2.5A power adapter and 6 foot power cord

Software features	Utilities ISU-01	Manager ISM-01
Max 500 pairs of handle	-	■
Max 50 user card authentication per handle	■	■
Dual or single card mode authentication	■	■
Enable or disable door sensor detection	■	■
Detailed user card information	-	■
Reporting on configuration details	-	■
Log in password	-	■

Description	Order Code
IS-800P InfraSolution standalone proximity HiD handles pair 1 x swipe card and power adaptor	AH-IS-S800P
IS-800P InfraSolution standalone MiFARE handles pair 1 x swipe card and power adaptor	AH-IS-S800M
ISW-USB-1.8 InfraSolution standalone handles data input cable USB to DC2.5 plug 1.8m	AH-IS-ISW-USN-1-8
ISC-P10 InfraSolution standalone HiD smart card, pack of 10	AH-IS-ISC-P10
ISC-M10 InfraSolution standalone MiFARE smart card, pack of 10	AH-IS-ISC-M10

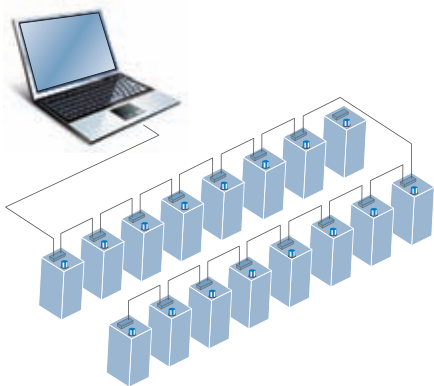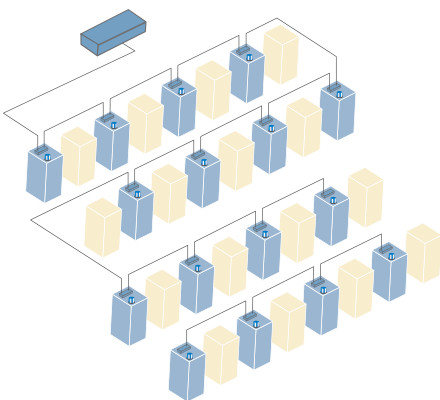| vibration	smoke	humidity	PDU control	fan control	security	water	temperature

Rack intelligence

InfraGuard™

The InfraGuard platform provides the following features:

- Switching and monitoring of up to four PDUs per system box. Each PDU can be fitted with up to two temperature and humidity sensors.

- The monitoring of the opening / closing of up to two doors and two side panels.

- Control of InfraCool fan trays.

- Monitoring of temperature, humidity, smoke, shock and leak detection. The system box provides local status reading via two large visual LED screens as well as full remote alarm functionality.

- Each system box can be configured to report on up to 10 temperature and humidity sensors. Sensor connected via the PDUs can viewed through the software GUI or via the PDU LCD screen itself.

The web based GUI (graphic user interface) management software allows users to access and control different racks. One InfraGuard master box can be configured to support up to 15 slave boxes on a single IP address. The management software allows a maximum of 30 master boxes per installation allowing up to 480 boxes to be configured on a single system network.

ENVIRONMENTAL MANAGEMENT

The free management software IGM-03 supports up to 30 x IP.

Up to 16 x InfraGuard control boxes can be connected by daisy chain and remotely accessed by one single IP.

Under "one box two racks" scenario, environmental remote management of up to 960 racks can be achieved.

- EC 300M as the 1st level master EC box
- The EC box can be cascaded up to 16 levels
- Only 1 x IP for 16 x EC box remote access
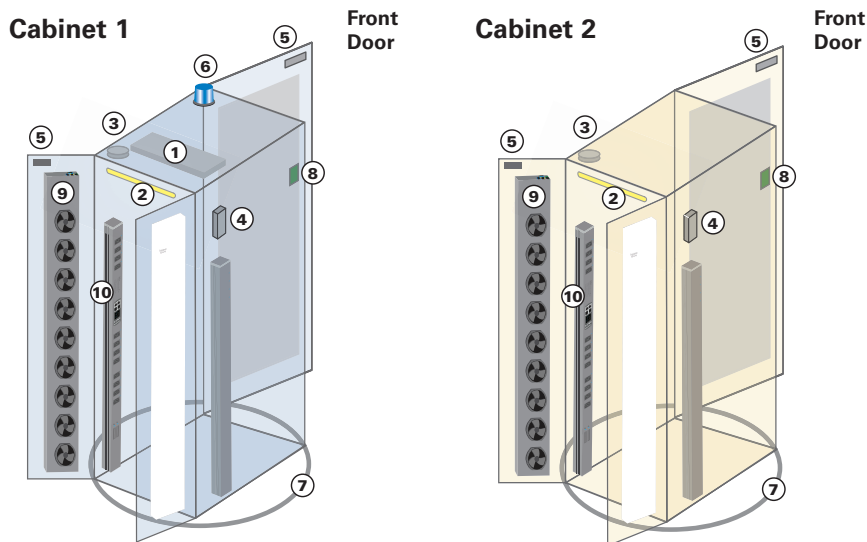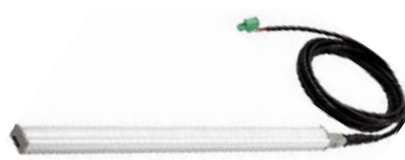
InfraGuard Master EC

Cabinet 1   Front Door

Cabinet 2   Front Door

Caption	1	2	3	4	5	6	7	8	9	10
Sensor integrated device	EC box	LED light bar	Smoke detector	Shock detector	Door detector	Flashing LED beacon	Water sensor	Temp & humidity sensor	Integrated fan **InfraCool**	Integrated PDU **InfraPower**
Cabinet 1	1	2	Any 2 combination		2	1	1	1	2	2
Cabinet 2	-	2	Any 2 combination		2	-	1	1	2	2

Alarm board may be fitted by 3rd parties

vibration	smoke	humidity	PDU control	fan control	security	water	temperature

Accessories in-rack

2. LED lamp

3. Smoke

4. Shock

5. Door sensors

6. Beacon

7. Water

8. Temperature & humidity

Rack intelligence

Accessories

Caption	Sensors	Order Code
2	IG-LP01-1M LED Lamp, 1m cord, ON/OFF via software or door sensor	AH-IG-LP011M
	IG-LP01-3M LED Lamp, 3m cord, ON/OFF via software or door sensor	AH-IG-LP013M
	IG-LP01/SW-1M LED Lamp, 1m cord, ON/OFF with switch	AH-IG-LP01S
	IG-LP01/SW-3M LED Lamp, 3m cord, ON/OFF with switch	AH-IG-LP01S
3	IG-S01-1M Smoke sensor, 1m cable	AH-IG-S011M
	IG-S01-3M Smoke sensor, 3m cable	AH-IG-S013M
4	IG-V01-1M Shock sensor, 1m cable	AH-IG-V011M
	IG-V01-3M Shock sensor 3m cable	AH-IG-V013M
5	Mechanical door switch, 2m cord, pair	AH-ISO-DSW-2M
6	IG-FB03-1M Flashing LED beacon, 1m cord	AH-IG-FB031
	IG-FB03-3M Flashing LED beacon, 3m cord	AH-IG-FB033
7	IG-W01-3M 5m Rope type water sensor, IP68 connection and 3m Cat6 cable	AH-IG-W013M
8	IG-TH01-2M Temperature and humidity sensor, 2m cable	AH-IG-TH012M
	IG-TH01-4M Temperature and humidity sensor, 4m cable	AH-IG-TH014M
	IG-T01-2M Temperature sensor, 2m cable	AH-IG-T012M
	IG-T01-4M Temperature sensor, 4m cable	AH-IG-T014M
-	Adhesive inductive sensor, 2m cord, pair	AH-ISO-DSI-2M
	Adhesive inductive sensor, 4m cord, pair	AH-ISO-DSI-4M

vibration   smoke   humidity   PDU control   fan control   security   water   temperature