Out of Rack

Better Technology through Innovation
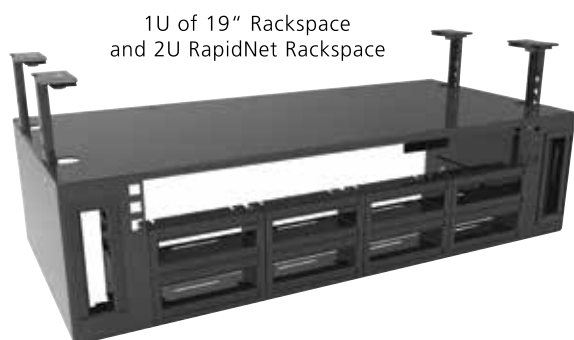
MADE TO CONNECT

Out of Rack Connectivity Solution

HellermannTyton's Out of Rack connectivity solution, combined with the industry leading RapidNet pre-terminated system, helps address many of the challenges faced by the ever increasing demands on today's data centres – reducing set up and operating costs, increasing flexibility and providing a pathway for future technology as bandwidth requirements increase.

Increase Space Utilisation

Moving the connectivity and interconnect equipment out of the racks or cabinets, frees additional U space which can then be used to increase server counts per rack, maximising the return on valuable data centre space.

3U RapidNet Rackspace

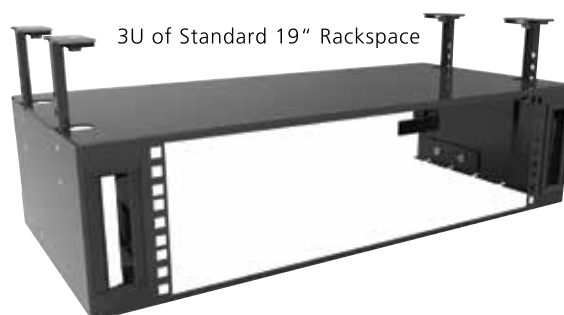1U of 19" Rackspace
and 2U RapidNet Rackspace

Facilitates Pre-termination

The simplification and modularity of a data centre layout enabled by the Out of Rack solution means the precise termination location and hence length of cable runs are well known at the point of design. This greatly facilitates the use of pre-terminated cabling, eliminating the risk of over length cables. HellermannTyton's Out of Rack Solution is configured for use with the RapidNet pre-terminated cabling system.

Improved Air Flow

Managing the patching and horizontal cabling outside of the rack can help improve critical air flow across the active equipment.

Improve Speed and Ease of Deployment

To reduce server rack deployment times, data centres are moving to so called "rack and roll" deployment – separating the connectivity from the server racks which can then be preconfigured and commissioned off line. Once moved to their final position, the servers can simply be patched across to the pre-installed Out of Rack connectivity, greatly improving the speed and ease of server rack deployment.

Increase Flexibility

The rate of technology change of active equipment is far higher than that of the connectivity infrastructure. Out of Rack patching enables server hardware to be renewed without disrupting the fixed cabling, reducing turnaround time and minimising upgrade costs.

3U of Standard 19" Rackspace

Reduce Infrastructure Costs

Adopting a data centre architecture restricting copper to within the racks, deploying switches in the Out of Rack solution at the rack locations and passing network traffic back to the core switching using fibre links, can greatly reduce the initial infrastructure costs, both cabling and containment.

Provide for Future Technology

Server virtualisation and higher utilisation levels mean bandwidth demands continue to increase. HellermannTyton's Out of Rack solution can help address these demands, enabling fibre links outside of the server racks and a future upgrade path from 10G to 40G and 100G.

Out of Rack Configurations

HellermannTyton's Out of Rack connectivity is available in 3 configurations:

1. 3U of RapidNet Ready space for up to 12 RapidNet cassettes.

2. 1U of 19" rackspace (eg: for a rack level switch) with 2U of RapidNet Ready cassette space.

3. 3U of standard 19" space with Rack Snap/cage nut mounting locations.

All three options include 2 Zero U RapidNet cassette locations within the 600mm width ie: a total capacity of 3½U.
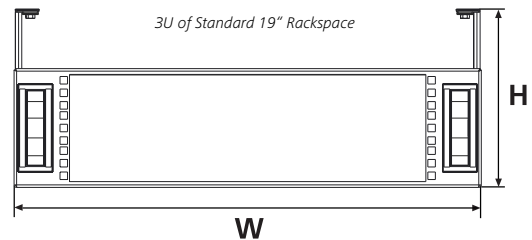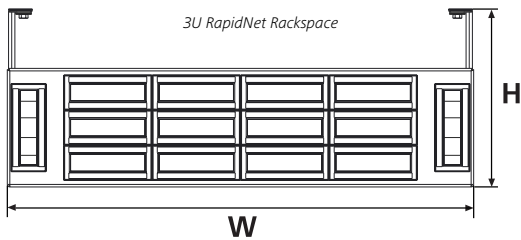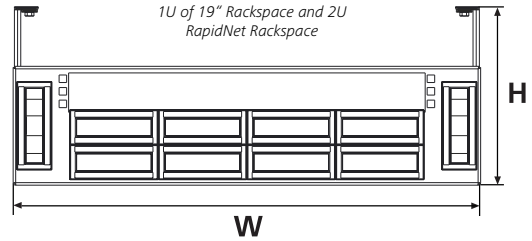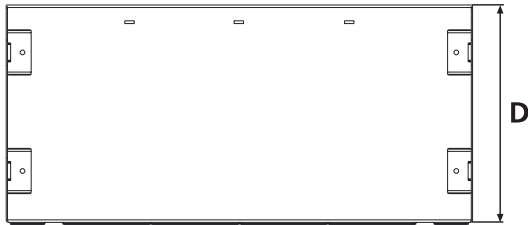
Features and Benefits

- 600mm width for the narrowest server rack

- Adjustable vertical height

- Single person overhead installation

- Fits any 50mm pitch basket tray

- Vertical cable management into the rack or cabinet

- RapidNet mesh clips for simple cable management

- Multiple fixing points for 25mm conduit cable management

- Cable anchoring points

- RapidNet Ready

- Grounding studs for earth bonding

- Maximum capacity of 156 copper ports or 2,016 fibres using RapidNet MTP VHD (or a combination of both)

Out of Rack Connectivity Solution located above Active Cabinet

Technical Diagrams and Part Numbers

1U of 19" Rackspace and 2U RapidNet Rackspace

3U RapidNet Rackspace

3U of Standard 19" Rackspace

Technical Specifications

Weight	RNAORC1	4.2kg
	RNAORC2	4.2kg
	RNAORC3	3.8kg
Additional Information	M6 nut fasteners used throughout	
	50mm cable tray pitch fixing brackets	

Accessories

Part Number	Product Description	UNS Number
CMA-GK01	Gland kit 1m conduit + 2 glands	854-40257
CMA-GK03	Gland kit 3m conduit + 2 glands	854-40258
CMA-GK10	Gland kit 10m conduit + 10 glands	854-40259
CMA-GK25	Gland kit 25m conduit + 10 glands	854-40260
CMA-GP22	Gland mounting plate 4 hole 2x2	854-40261
CMA-GP40	Gland mounting plate 4 hole 1x4	854-40262
CMA-GP44	Gland mounting plate 8 hole 2x4	854-40263
CT036-010	Velcro cable ties - Pack of 10	851-40264
RNCC6	Four way RapidNet cable clamp cover	859-35000
RNCCC	RapidNet cable clamp cover	859-35001
DCMJST	RJ45 Rubber dust cover	854-40177
RNA-BLANK	RapidNet Blank - V2	851-40196
CMA-SB45	400mm Basket	851-40265

Out of Rack Dimensions

Width (W)	590mm
Height (H)	225mm
Depth (D)	278mm

Part Numbering

Part Number	Product Description	UNS Number
RNAORC1	Out of rack connectivity - 3U RapidNet	854-20024
RNAORC2	Out of rack connectivity - 2U RapidNet + 1 free patch	854-20025
RNAORC3	Out of rack connectivity - 3U free patching	854-20026

Patch Leads

Part Number	Product Description
RJ45NGB-0.3M/ XX	Patch Lead 300mm
RJ45NGB-0.15M/ XX	Patch Lead 150mm

XX - Colour options to be specified using the following: GY = Grey, GN = Green, YL = Yellow, RD = Red, BL = Blue