

**CODECOM**



**CODECOM SOLUTIONS**

**CUSTOMER RACK SOLUTIONS**

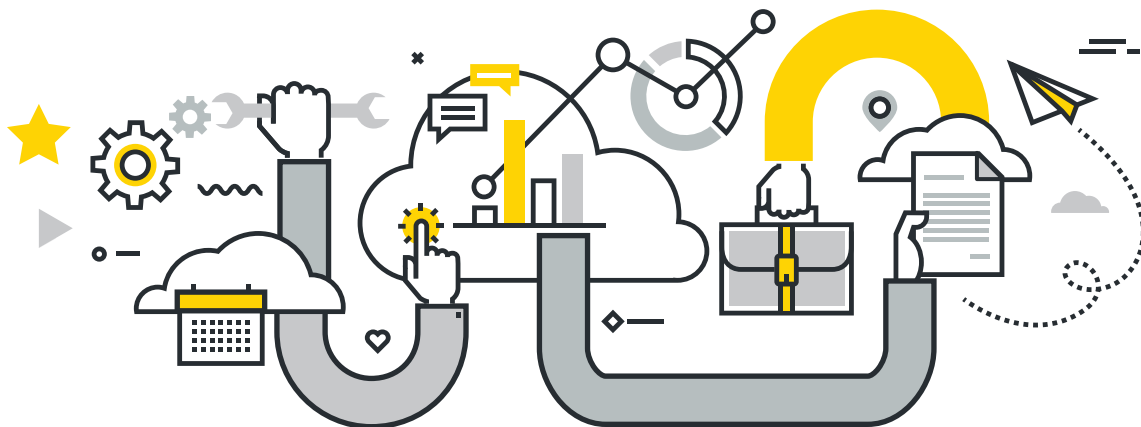
# CUSTOMER RACK SOLUTIONS

Codecom have developed a range of in rack solutions which enables great flexibility when choosing the right product to fit specific needs.

Our focus when designing these solutions is to allow maximum density while also allowing for easy operation.

The ability to select a required solution for different application is key. In racks that have limited access we recommend our front facing solutions; then on solutions where density is vital you can use our rear entry solutions which maximise the density.

Our front facing solutions enable slim line racks to be used (300mm or 12") which enable to be used in Codecom slim line racks and mounted against the wall or back to back within the same rack. These have also been designed so active equipment can be used one side of the rack and maximum capacity of the other side can be used without interference.



# OUR RANGE OF SOLUTIONS



## 1. HIGH DENSITY CROSS CONNECT (HDCC)

This front facing loopback panel enables front entry of both incoming (LHS) and outgoing (RHS). This allows cross connect hand offs to be completed with minimal risk as handing off these connections is easy. This panel is also very slim in depth (241.70mm in depth).



## 2. MPO - LC LOOPBACK (CMLL)

This panel has also been designed as front access. With incoming connection on the LHS it enables high density cross connects to be handed off with ease and minimum risk. MPO allows for quick hand off and enables maximum space efficiency. The MPO connections for the incoming (LHS) and outgoing (RHS). This panel is also very slim in depth (241.70mm in depth).



## 3. MPO-LC FIXED HIGH DENSITY PANEL

This panel is aimed to maximise density. The MPO connectors are on the back and LC connector on the front. This enable maximum use of density within 1RU (144F max). great solution when handing off high quantity of connection day 1. Very easy to deploy and utilises our Low Loss MPO and LC connectors.



## 4. 1RU THRU CONNECTOR PATCH PANEL

This panel is a basic thru connector panel. LC and SC versions. Allows incoming connection at the rear and outgoing on the front.

## FIBRE MANAGEMENT LOOPBACK PANEL

# 1U HD CROSS-CONNECT PATCH PANEL (HDCC)



Codecom front access cross connect handoff panel has been specifically designed to eliminate all risk involved with Co-Location Data Centres delivering cross connects to customers.

Codecom have used our focus on easy to operate solutions to enable this simple IN/Out panel to be operate with ease and No Risk.

The front Panel is divided in 2 sections with on the right In and on the left Out. Low loss LC and SC premium are offered featuring improved low insertion losses for demanding low power budget and high-speed networks. Front cable management facilities a neat and tidy solution for managing incoming and exiting cables.

### Features and Applications

- Compact U size with short depth of 142mm
- Full front access patching with high density up to 144FO (72 in/72 out)
- Premium Low Loss connectivity
- Rapid deployment with factory pre-populated panel.
- Enterprise network & Datacentre
- Indoor application
- TIA/EIA-568-C.3 and ISO/IEC 11801
- EC-61754-7 & EIA/TIA-604-5
- IEC-60793

## OPTICAL PERFORMANCE

Parameters	Units		Parameters	Units	PC	APC
Insertion loss – Standard	dB	Typ-0.25/ Max < 0.3	ROC -2.5mm	mm	5-30	5-12
Return loss SM (PC/APC)	dB	> 55/65	ROC -1.25mm	mm	5-30	5-12
Insertion loss – Premium	dB	Typ-0.12/ Max < 0.15	Apex offset	µm	0-70	0-70
Return loss (PC/APC)	dB	> 55/65	Fiber height	nm	-100 - a	-100 - a
			APC angle	degree	-	7.7-8.3





## GENERAL SPECIFICATIONS

Parameters	
Mounting Type	Rack 19"
Height Unit	1U
Material	Cold rolled steel
Housing Color	Black
Application	Indoor IP20
Lockable	No
Dimensions (W x D x H in MM)	490x239.5x44mm
Net Weight	250Kg

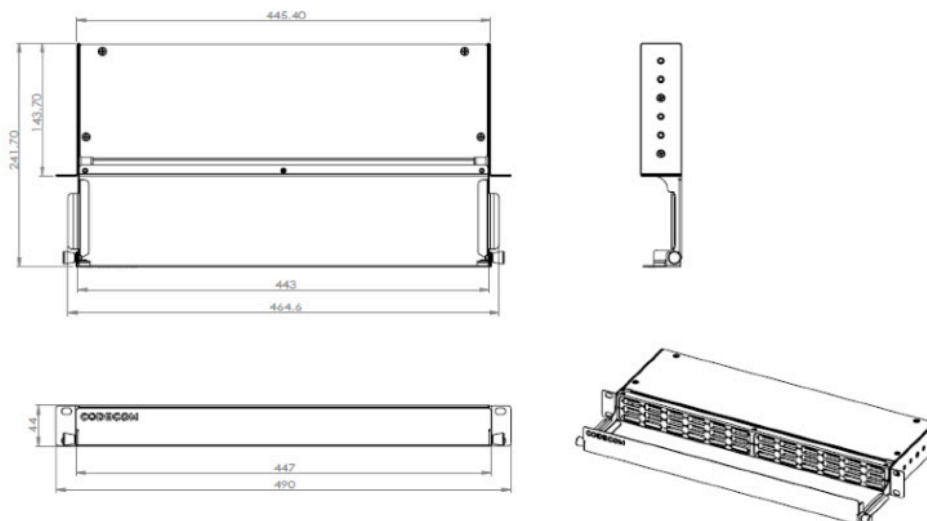
## DESIGN - HARDWARE

Opening Type	Fixed
Access Type	Front access
Front Cable Management	Hinged drop down front plate
Slot Type	LC , SC
Fiber Capacity	Up to 144FO in LC (72FO in -72FO out)

**ORDERING INFORMATION**

	Part Number	Product Description
	CC-1RU-HDCC-144LC	1U HD Cross Connect Patch Panel 144FO LC-LC Premium Low Loss (72 In / 72 Out)
	CC-1RU-HDCC-72LC	1U HD Cross Connect Patch Panel 72FO LC-LC Premium Low Loss (36 In / 36 Out)
	CC-1RU-HDCC-72SC	1U HD Cross Connect Patch Panel 72FO SC-SC Premium Low Loss (36 In / 36 Out)
	CC-1RU-HDCC-72LCSC	1U HD Cross Connect Patch Panel 72FO Hybrid LC-SC Premium Low Loss (36 In SC / 36 Out LC)

**TECHNICAL DRAWINGS**



## FIBER MANAGEMENT - LOOPBACK PANEL

# 1U HD CROSS-CONNECT PATCH PANEL



The Loop Back Patch Panel has been designed to take the pain out of installing high fibre counts into racks which have rear access issues.

The Codecom MPO Loop back panel enables to MPO (In) connectors to be plugged in on the left hand side and the LC connectors are broken out on the right. Very easy installation and services too. Specifically for data centre cross connect hand off application this box is taking the pain and risk away from delivering services to any rack.

### Features & Applications

- Compact U size with short depth of 142mm
- Full front access patching with high density up to 96FO (96 in/96 out)
- Premium Low Loss connectivity
- Rapid deployment with factory pre-populated panel.
- Enterprise network & Datacentre
- Indoor application
- TIA/EIA-568-C.3 and ISO/IEC 11801
- EC-61754-7 & EIA/TIA-604-5
- IEC-60793

## OPTICAL PERFORMANCE

PARAMETERS	UNITS	SM MPO	SM LC/SC	MM MPO	MM LC/SC
Avg/Max IL - Standard	dB	≤ 0.25/0.75	≤ 0.20/0.30	≤ 0.60	≤ 0.18/0.30
Return loss (PC/APC)	dB	≥ 60	≥ 60/65	NA	NA
Avg/Max IL- Premium	dB	≤ 0.10/0.35	≤ 0.12/0.15	≤ 0.35	≤ 0.12/0.15
Return loss (PC/APC)	dB	≥ 60	≥ 60	NA	NA



## GENERAL SPECIFICATIONS

Mounting Type	Rack 19"
Height Unit	1U
Material	Cold rolled steel
Housing Color	Black
Application	Indoor IP20
Lockable	No
Dimensions (W x D x H in mm)	490 x 239.5 x 44
Net Weight	2.5kg

## DESIGN - HARDWARE

Opening Type	Fixed
Access Type	Front access
Front Cable Management	Hinged drop down front plate
Slot Type	MPO (male) Elite / LC
Fibre Capacity	Up to 96FO (96FO in - 96FO out)

## ORDERING INFORMATION

PART NUMBER	PRODUCT DESCRIPTION	
<b>CC-1RU-HDCC-96MPOLC</b>	1U HD Cross Connect Patch Panel 96FO MPO(M)Elite -LC Premium Low Loss (96 In / 96 Out)	
<b>CC-1RU-HDCC-72MPOLC</b>	1U HD Cross Connect Patch Panel 72FO MPO(M)Elite -LC Premium Low Loss (72 In / 72 Out)	



## FIBRE MANAGEMENT

## 1U MPO-LC PANEL



Codecom 1U MPO-LC panel is specially designed for high density patching application.

With MPO connectors at the rear and cable management this panel allows for rapid installation and maximum connector density for 1RU. Various density fibre options are available.

#### Features & Applications

- Standard 19" size, can be rack-mounted
- Available in standard SM and MM options
- Available with Elite MPO and premium LC connector only
- RoHS, Reach and SvHC compliant
- Compliant with IEC, TIA/EIA standards
- Datacentre & Enterprise network
- Indoor application
- Telecommunication central office




## GENERAL SPECIFICATIONS

Material	Metal cold rolled with black powder coating
Capacity	144F MPO-LC in 1U
Dimensions (W x D x H in mm)	490 x 303 x 44
Insertion Loss - MPO (male) Elite	SM - 0.35 dB; MM - 0.35 dB
Insertion Loss - LC Premium	SM - 0.15 dB; MM - 0.15 dB
Return Loss - MPO (male) Elite	SM >60 dB; MM - NA
Return Loss - LC Premium	SM (PC/APC) >55/65 dB; MM - NA

## DESIGN - HARDWARE

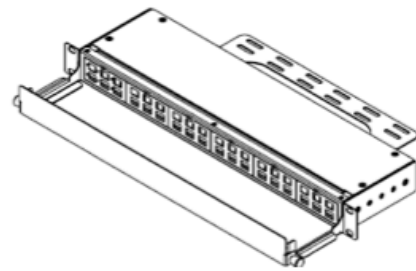
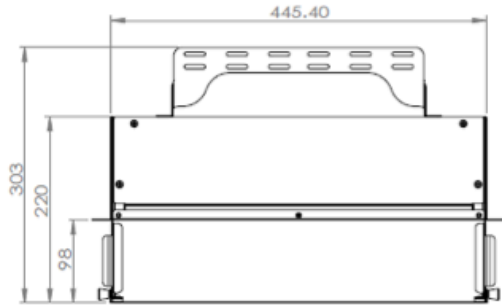
Opening Type	Fixed
Access Type	Front access
Front Cable Management	Removable hinged door
Cable Entry Direction	Rear
Rear Cable Management	Support bar
Slot Type	SC Duplex footprint
Number of Slots	36
Fibre Capacity	Up to 144 in LC

## ORDERING INFORMATION

PART NUMBER	PRODUCT DESCRIPTION	
<b>CC-MPOF72</b>	1U HD PANEL 6xMPO(M) ELITE-LC 72FO SM G657A1	
<b>CC-MPOF96</b>	1U HD PANEL 8xMPO(M) ELITE-LC 96FO SM G657A1	
<b>CC-MPOF144</b>	1U HD PANEL 12xMPO(M) ELITE-LC 144FO SM G657A1	

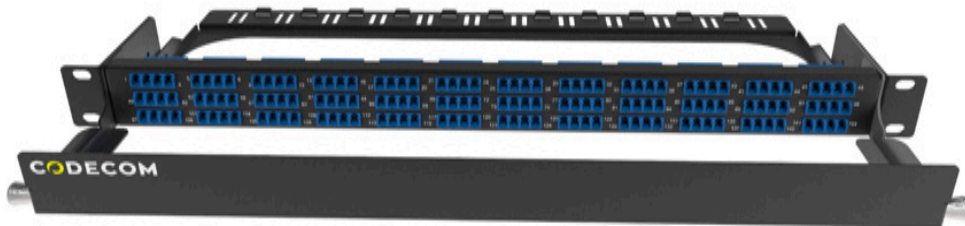
**TECHNICAL DRAWINGS**

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## FIBRE MANAGEMENT - RACK MOUNT

# 1U 24 PORTS PRE-TERMINATED PATCHING PANEL (UP TO 144FO)



Codecom Breakout Pane is designed to provide housing for connections from a preterm breakout cable to patch cords.

The Open frame allows for quick and easy installation. It accepts up to 144FO with LC. With various density options (72F, 96F and 144F) this allows for great density savings.

### Features & Applications

- 1U height with SC or LC Adapter
- Up to 144FO in LC
- Channel to route the patch cords to the rear of the rack within the 1U space
- RoHS, REACH and svHC
- Datacentre & Enterprise network
- Indoor application
- Accepts Indoor and Outdoor Pre-terminated cables




## GENERAL SPECIFICATIONS

Mounting Type	Rack 19"
Height Unit	1U
Material	Cold rolled steel
Housing Color	Black
Application	Indoor IP20
Lockable	No
Dimensions (W x D x H in mm)	490 x 285.6 x 44
Net Weight	2.3kg

## DESIGN - HARDWARE

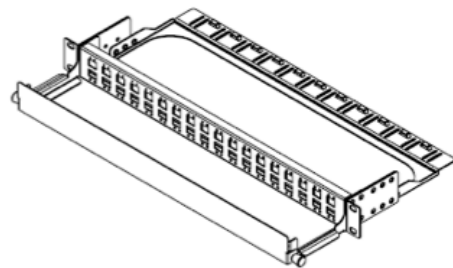
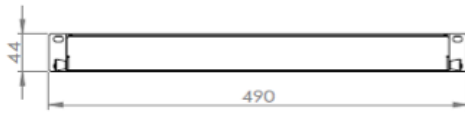
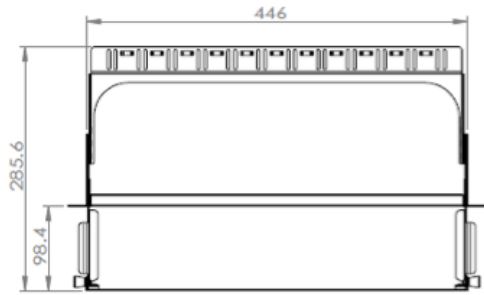
Opening Type	Fixed
Access Type	Front access
Front Cable Management	Removable hinged door
Cable Entry Direction	Rear and Front
Rear Cable Management	Support bar
Slot Type	SC Duplex footprint
Number of Slots	36
Fibre Capacity	Up to 144 in LC

## ORDERING INFORMATION

PART NUMBER	PRODUCT DESCRIPTION	
<b>CC-SM72PF</b>	1U Patching Panel 72FO - 36 Duplex LC Adapter SM	
<b>CC-SM96PF</b>	1U Patching Panel 96FO - 48 Duplex LC Adapter SM	
<b>CC-SM144PF</b>	1U Patching Panel 144FO - 24 Quad LC Adapter SM	

**TECHNICAL DRAWINGS**

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## LOCATIONS

### MELBOURNE (Head Office)

1/22 Buchanan Rd Brooklyn  
3012 Victoria Australia  
Phone: +61 3 9314 4055

### QUEENSLAND

11/53 Casua Drive Varsity Lakes  
4227 Queensland Australia  
Phone: +61 7 5568 0822

### HONG KONG

Codecom (Hong Kong) Limited  
Unit 503, 5/F, Tower 2, Lippo Centre, 89  
Queensway,  
Admiralty, Hong Kong  
Tel: 852-2861 0811 Fax: 852-2865 4177

[info@codecom.com.au](mailto:info@codecom.com.au)  
[sales@codecom.com.au](mailto:sales@codecom.com.au)  
[accounts@codecom.com.au](mailto:accounts@codecom.com.au)  
[www.codecom.com.au](http://www.codecom.com.au)