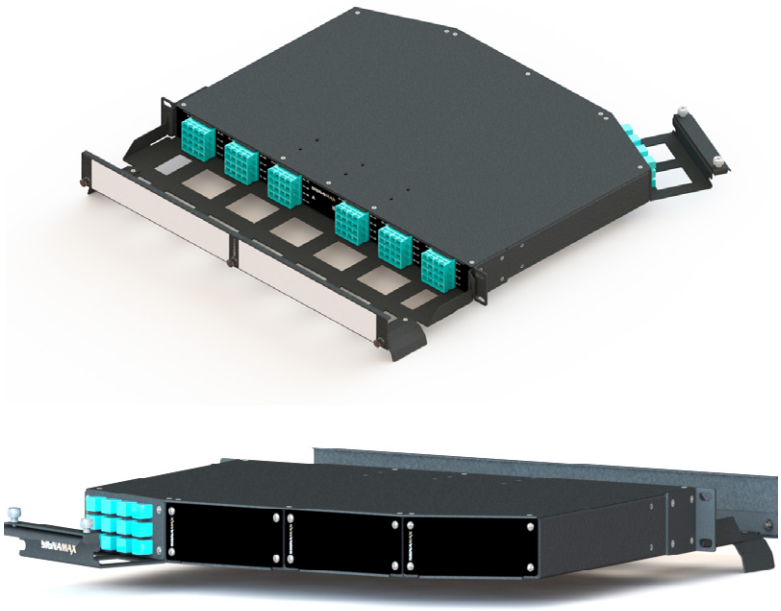
SIGNAMAX DATA CENTER SOLUTIONS

Product Specifications

Dual Fabric Passive Panel

KEY FEATURES

- Dual Fabric Passive Panel with 96 ports (192f) in a 1U footprint designed for ToR deployments
- Designed for diversified pathways through segmented Fabrics A & B with 48 ports
- Multiple applications for Service Providers, Colo-located and Hyperscale Data Centers
- Rapid Deployment through Signamax's Just Right Density™ approach for the Core-Aggregation or Aggregation-Access segments and Spine/Leaf topologies
- Utilizes US Conec MTP® MT Elite®, SENKO CS® and SN® connectors to reduce port density by 40% while offering same low loss performance as an LC connector
- CS® and SN® connectors specifically designed for the QSFP-DD, QSFP-56 and OSFP transceivers used in next-gen Fiber Channel and 200/400Gb Ethernet
- Easy Order P/N for specific segments in the Data Center



ORDERING INFORMATION: DUAL FABRIC PASSIVE PANEL

PART NO.	DESCRIPTION
CORE8	
DCF89-AMT4D-M4096	1U Enclosure with 96 Ports (192f), OM4 for CORE8 applications, MTP to CS, 40/100 GbE
DCF08-AMT4D-M5096	1U Enclosure with 96 Ports (192f), OM5 for CORE8 applications, MTP to CS, 40/100 GbE
DCF08-AMT4D-SM096	1U Enclosure with 96 Ports (192f), OS2 for CORE8 applications, MTP to CS, 40/100/200 GbE
CORE12	
DCF12-AMT4D-M4096	1U Enclosure with 96 Ports (192f), OM4 for CORE12 applications, MTP to CS, 40/100 GbE
DCF12-AMT4D-M5096	1U Enclosure with 96 Ports (192f), OM5 for CORE12 applications, MTP to CS, 40/100 GbE
DCF12-AMT4D-SM096	1U Enclosure with 96 Ports (192f), OS2 for CORE12 applications, MTP to CS, 40/100/200 GbE

Use Part Number Configurator for additional Custom builds

ORDERING INFORMATION: DIRECT CONEX PANEL

PART NO.	DESCRIPTION
DCF12-NCSBD-M4096	1U Enclosure with 96 Ports (192f), OM4 Unloaded CS Panel, Up to 200 GbE or 256 GbFC applications
DCF12-NCSBD-M5096	1U Enclosure with 96 Ports (192f), OM5 Unloaded CS Panel, Up to 200 GbE or 256 GbFC applications
DCF12-NCSBD-SM096	1U Enclosure with 96 Ports (192f), OS2 Unloaded CS Panel, Up to 200 GbE or 256 GbFC applications

ORDERING INFORMATION: EASY ORDER SEGMENT KITS

PART NO.	DESCRIPTION
10/40 GbE, Aggregation to Access ToR Segment	
DCFPK-TORMTM4-096	2 x 1U Enclosures with 96 Ports (192f), 2 x 48 port MTP (F) Low Loss OM4 Fiber Trunks, Method B, (200 ft), 192 x 3M CS to LC Low Loss OM4 Duplex Fiber Patch Cords with offset pull tabs
40/100 GbE, Core to Access ToR Segment	
DCFPK-CORMTSM-096	2 x 1U Enclosures with 96 Ports (192f), 2 x 48 port MTP (F) Ultra Low Loss SM Fiber Trunks, Method B (200 ft), 192 x 3M CS to LC Ultra Low Loss OS2 Duplex Fiber Patch Cords with offset pull tabs

Estimated total connector loss per segment of .82 dB including attenuation with variation of +/- .03 dB enables 100 GbE application speeds over parallel optics.

ORDERING INFORMATION: ACCESSORIES

PART NO.	DESCRIPTION
DCFP-ZUPM	Zero U Cable Manager, Patch Management
DCFP-CMFS	Internal Cable Management, Fiber Spool
DCFP-RCM	Rear Cable Management Module
DCFP-RBP	Blank Rear Panel

For complete list of Signamax's CS Patch Cords with pull tabs visit www.signamax.com

www.signamax.com
999 N.W. 159th Drive
Miami, FL 33169
Tel: 800.446.2377

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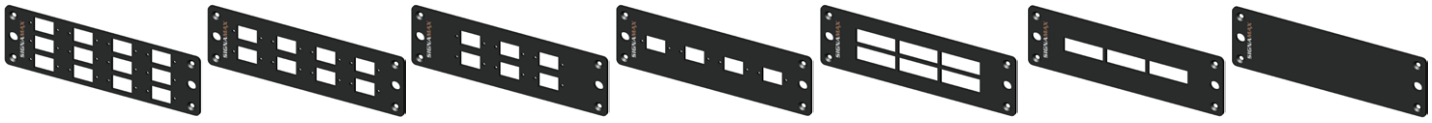
DCF[AA]-[B][CC][D][E]-[FF][GGG]

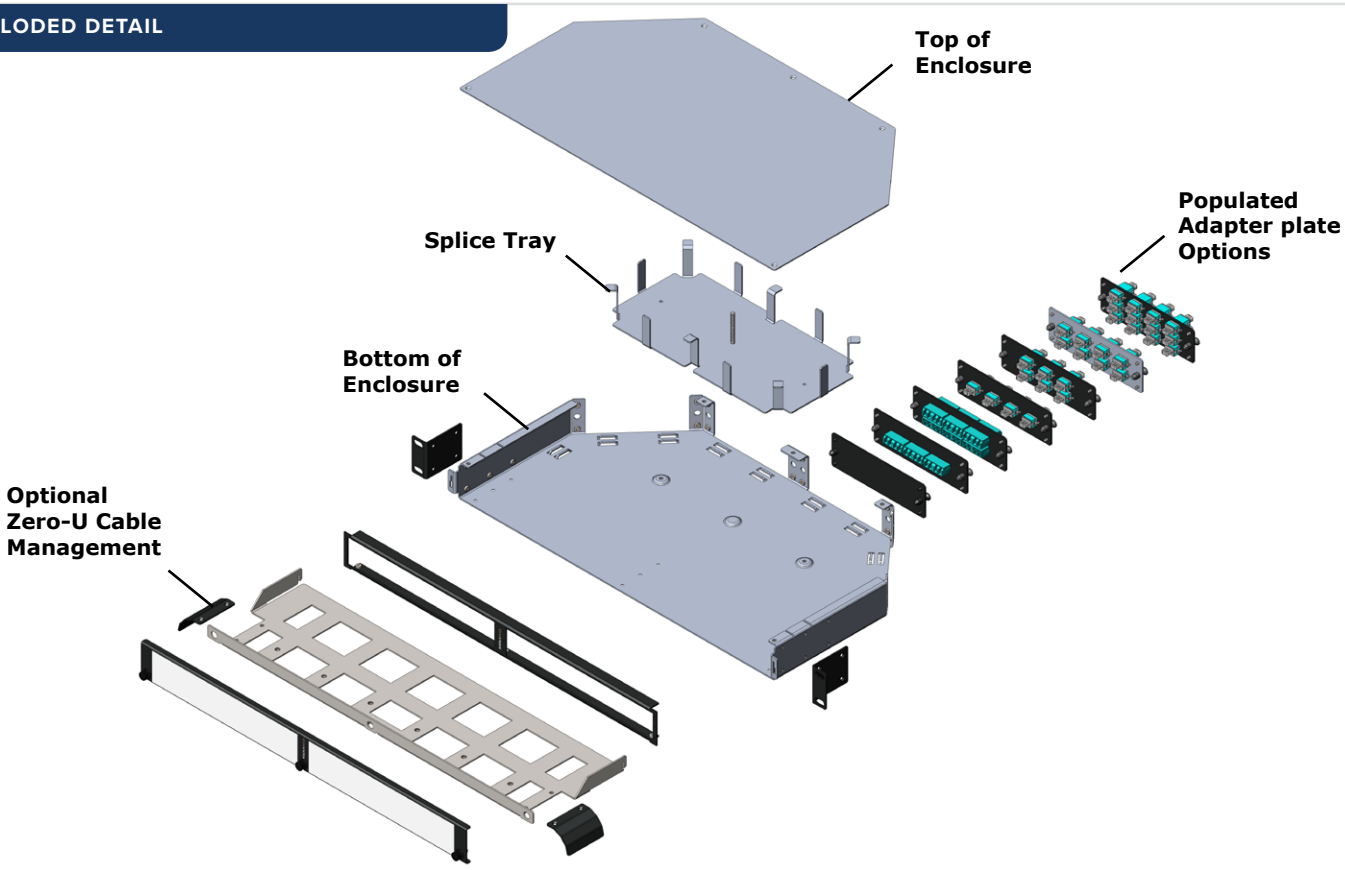
ORDERING CONFIGURATION

BASE APPLICATION [AA]	POLARITY [B]	-	FRONT PANEL [CC]	REAR ENTRY PANEL [D]	REAR ENTRY POSITON [E]	-	FIBER TYPE [FF]	PORT COUNT [GGG]
08: CORE8	**A:** Method A		**MT:** MTP to CS	**4:** 4 Rear Panels with 4 MTP Slots	**L:** Left to Right		**M3:** OM3	**096:** 096 Ports (192 CS to LC Fibers)
88: CORE8 over 12 fibers (Outer Edge)	**B:** Method B			**6:** 4 Rear Panels with 6 MTP Slots	**R:** Right to Left		**M4:** OM4	**128:** 128 Ports (256 CS to LC Fibers)
89: CORE8 over 12 fibers (Center)	**C:** Method C			**8:** 4 Rear Panels with 8 MTP Slots	**D:** Dual Fabric: Fab A: Left to Right Fab B: Right to Left		**M5:** OM5	**144:** 144 Ports (288 CS to LC Fibers)
12: CORE12				**2:** 4 Rear Panels with 12 MTP Slots			**SM:** OS2	
				M: 2 Rear Panels with 12 MTP Slots and 2 Rear Panels with 6 MTP Slots				

ADAPTER PLATE OPTIONS



EXPLODED DETAIL



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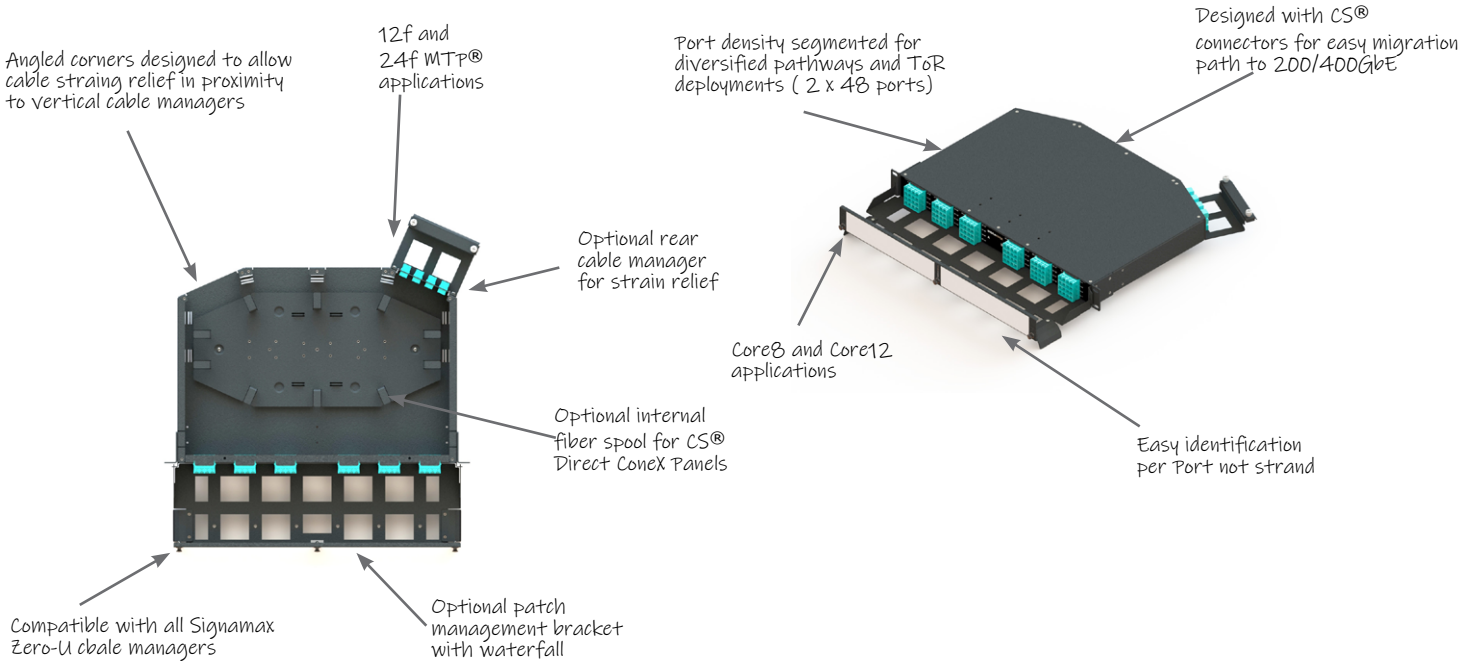

SPECIFICATIONS

TRANSMISSION PERFORMANCE

ANSI/TIA-568-C.3: Insertion and return loss (100% tested)

Return loss:
- **OM4/OM5:** ≤ 20 dB
- **OS2:** ≤ 55 dB (8º angle polish)

***Insertion loss:**
- **CS®/LC Connector:**
  - **OM4/OM5:** 0.15 dB Typical, 0.25 dB Max
  - **OS2:** 0.15 dB Typical, 0.25 dB Max
- **MTP Elite® Performance:**
  - **OM4/OM5:** 0.15 dB Typical, 0.35 dB Max
  - **OS2:** 0.15 dB Typical, 0.35 dB Max

*Typical is for all fibers/Max is for single fiber.

CONSTRUCTION

Enclosure:
- **Frame:** Carbon Steel
- **Adapter Plates:** Aluminum with Nylon push pins
- **Adapter Housing:** Carbon steel
- **Mounting Screws:** Carbon steel

Cable:

Cable Type: MTP®(M) to CS®, Internal breakout cord
- **Length:** 12" (305 mm)
- **Fiber Size:** 250 µm
- **Outer Jacket:** OFNP (non-conductive, plenum-rated)
- **Strain Relief:** Thermoplastic

CAPACITY

Front Adapter Plate:

96 Ports: 192 CS®/LC Fibers
128 Ports: 256 CS®/LC Fibers
144 Ports: 288 CS®/LC Fibers

MECHANICAL

OM4/OM5: < 0.2 dB change (per EIA-455-21A), 1000 cycles Max
OS2: < 0.3 dB change (per EIA-455-21A), 500 cycles Max
Connector Ferrule: Zirconia ceramic
End-Face Radius of Curvature: 0.39" (10 mm) < R < 1.18" (30 mm)
Apex Offset: < 50 µm

ENVIRONMENTAL CONDITIONS

Operating Temperature: -40 to 176 °F (-40 to 80 °C)
Operating RH: 93% Max (non-condensing)

DIMENSIONS

Enclosure: 1.71" H x 12.44" D x 18.07" W (43.5 x 316 x 459 mm)
Front Adapter Plate: 1.61" H x 0.51" D x 16.26" W (40.8 x 13 x 436 mm)
Rear Adapter Plates: 1.58" H x .06" D x 4.5" W (40 x 1.5 x 114 mm)

COMPLIANCE

ANSI/TIA-568.3-D, CENELEC EN 50173, ICEA S-83-596, IEC 60793-10, IEC 60793-2-10, ISO/IEC 11801 2nd Ed., ITU-T G.652.D, ITU-T G.657.A1, ITU-T G.657.A2/B2, ITU-T G.657.B3, TIA-492-AAAA-A, TIA-492-AAAC-B, TIA-492-AAAD, TIA-492-CAAB, TIA-604-10, UL 1666, UL 94 V-0

WARRANTY

5 - Year Limited Component

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