

ExTell AxiomTravex Rack-Mount Fiber Distribution Frame

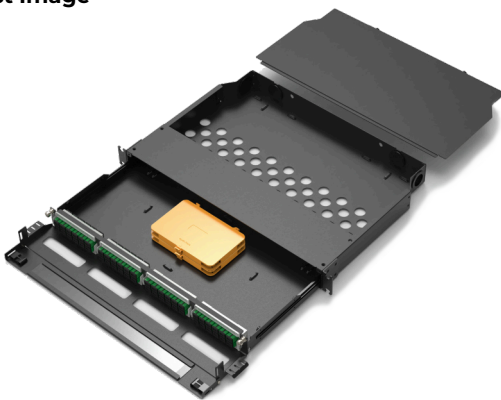
Pullable & Hanging Access | CP-Class Adapter Platform | HELIX Splice Management | 1U & 2U

Product Overview

The ExTell AxiomTravex Series is a purpose-engineered family of extendable-access rack-mount Fiber Distribution Frames (FDF), providing the operational flexibility of front-accessible fiber management within a secure, fixed enclosure. Available in 1U and 2U configurations, the series scales from 96F to 192F (LC Duplex), offering a practical and expandable solution for data centers and enterprise environments where maintenance must be performed without chassis removal.

The defining feature of the AxiomTravex Series is its innovative Extendable Bottom-Box Mechanism, which allows the chassis base to extend outward and downward for direct field access to the internal tray stack. Built on the ExTell CP-Class adapter plate platform and paired with the HELIX splice tray system, this modular architecture enables rapid reconfiguration in live, high-density environments. Every model integrates the OPTIGUIDE-R internal management kit, ensuring strict bend-radius compliance and total fiber path protection across the unified CP-Class and HELIX ecosystem.

Product Image



EATIR1-04CP04HE-U-BK



EATIR2-08CP08HE-U-BK

Product Highlights

- **Two-model unified range** : 1U and 2U in a single ecosystem; scale capacity without changing adapter plate or splice tray specifications
- **Pullable and hanging bottom-box access mechanism** : chassis base extends outward and downward, exposing the full tray stack without chassis removal or rack clearance
- **CP-Class adapter plate platform** : compact high-density format engineered for the chassis; modular and field-swappable without tools or rewiring
- **HELIX Splice Tray Management system** : 24F capacity per slot; factory-indexed seating with secure retention for fast and accurate tray placement
- **OPTIGUIDE-R internal cable management kit** : integrated within the chassis body; maintains strict bend-radius compliance across all internal fiber routes
- **Peak density** of 192F LC Duplex in 2U; 96F LC Duplex in 1U
- **SPCC cold-rolled steel chassis** : powder-coated black; 19" EIA-310 rack compatible across both models
- **Modular adapter plate architecture** : three CP-Class plate variants support LC Duplex / SC Simplex, FC Simplex, and ST Simplex connector types
- **Supplied unloaded as standard** : Adapter Plates, Splice Trays, Adaptors and Pigtails should be specified and ordered independently per project requirement

Technical Specifications

Identification

Parameter	EATIR1-04CP04HE-U-BK · 1U Model	EATIR2-08CP08HE-U-BK · 2U Model
	Specification	
Part Number	EATIR1-04CP04HE-U-BK	EATIR2-08CP08HE-U-BK
Series Brand	AxiomTravex Series	AxiomTravex Series
Product Family	RM Extendable Access Fiber Distribution Frame	RM Extendable Access Fiber Distribution Frame



ExTell AxiomTravex Rack-Mount Fiber Distribution Frame

Pullable & Hanging Access | CP-Class Adapter Platform | HELIX Splice Management | 1U & 2U

Physical

Parameter	EATIR1-04CP04HE-U-BK · 1U Model	EATIR2-08CP08HE-U-BK · 2U Model
	Specification	
Rack Unit Height	1U (43.7 mm)	2U (88.9 mm)
Chassis Dimension (WxDxH)	482.6 × 312.5 × 43.7 mm	482.6 × 371.1 × 88.9 mm
Rack Compatibility	19" EIA-310 / IEC 60297	19" EIA-310 / IEC 60297
Chassis Material	SPCC Cold-Rolled Steel (1.2 mm)	SPCC Cold-Rolled Steel (1.2 mm)
Surface Finish	Powder-Coated Black	Powder-Coated Black
Cable Entry	Front & Rear	Front & Rear
Colour	RAL 9005 Black RAL 7035 Grey (on request)	RAL 9005 Black RAL 7035 Grey (on request)

Mechanical

Parameter	EATIR1-04CP04HE-U-BK · 1U Model	EATIR2-08CP08HE-U-BK · 2U Model
	Specification	
Mechanism Type	Extendable Access — Pullable & Hanging Bottom Box	Extendable Access — Pullable & Hanging Bottom Box
Access Method	Bottom-box extends outward and downward; full tray stack exposed without chassis removal	Bottom-box extends outward and downward; full tray stack exposed without chassis removal
Internal Cable Management	OPTIGUIDE-R Kit (Integrated)	OPTIGUIDE-R Kit (Integrated)

Fiber Configuration

Parameter	EATIR1-04CP04HE-U-BK · 1U Model	EATIR2-08CP08HE-U-BK · 2U Model
	Specification	
Adapter Plate Class	CP-Class	CP-Class
Adapter Plate Slots	4	8
Splice Tray Slots	4	8
Capacity per Tray Slot	24 Fibers	24 Fibers
Total Splice Capacity	96 F (4 × 24F)	192 F (8 × 24F)
Max Density — LC Duplex	96 F	192 F
Max Density — SC Simplex	48 F	96 F
Max Ports — FC / ST	24 Ports	48 Ports
Compatible Adapter Plate	CP-Class (3 variants)	CP-Class (3 variants)
Compatible Splice Tray	HELIX (EST1-HE-24F)	HELIX (EST1-HE-24F)
Supply Condition	Unloaded — Chassis Only	Unloaded — Chassis Only



ExTell AxiomTravex Rack-Mount Fiber Distribution Frame

Pullable & Hanging Access | CP-Class Adapter Platform | HELIX Splice Management | 1U & 2U

Environmental

Parameter	EATIR1-04CP04HE-U-BK · 1U Model	EATIR2-08CP08HE-U-BK · 2U Model
	Specification	
Operating Temperature	-10°C to +60°C	-10°C to +60°C
Storage Temperature	-45°C to +65°C	-45°C to +65°C
Operating Humidity	5% – 95% RH (Non-Condensing)	5% – 95% RH (Non-Condensing)
Installation Environment	Indoor — Controlled Environment	Indoor — Controlled Environment
Ingress Protection	IP20 — Indoor Controlled Environment	IP20 — Indoor Controlled Environment

Patch Panel Compatibility Matrix

All adapter plates and splice trays listed below are compatible with the AxiomTravex Series CP-Class chassis. All sub-systems must be ordered independently. Adapter plates, splice trays, adaptors, and pigtails are not included with the chassis as standard.

CP-Class Adapter Plates (EAP1-CP Series)

Part Number	Supporting Adaptor Footprint Info	Port Count / AP	Fiber Density / AP	Compatibility
EAP1-CP-12P-D04S02	CP-Class Adaptor Plate Supports Duplex LC / Simplex SC Adaptors	12 Ports	24F LC Dup / 12F SC Sim	Both Models
EAP1-CP-06P-S03	CP-Class Adaptor Plate Supports Simplex FC Adaptors	6 Ports	6F FC Simplex	Both Models
EAP1-CP-06P-S01	CP-Class Adaptor Plate Supports Simplex ST Adaptors	6 Ports	6F ST Simplex	Both Models

Helix Splice Tray (ESTI-HE Series)

Part Number	Fiber Density	Dimensions (mm)	EATIR1 (1U · 4 Slots)	EATIR2 (2U · 8 Slots)
ESTI-HE-24F	24F per slot	150 × 92 × 9.5	Max 4	Max 8

Port / Fiber Density Configuration Matrix

The Fiber Density values listed represent the maximum capacity achievable when all chassis adapter slots are fully populated with a uniform CP-Class plate type. The AxiomTravex Series supports mixed CP-Class configurations across slots; final density is determined by the specific slot allocation and total splice tray capacity. All capacity data is verified against the ExTell Configuration Matrix.

LC / SC Density Reference

Adapter Plate P/N	Connector Type	EATIR1-04CP04HE-U-BK (1U · 4 Slots)			EATIR2-08CP08HE-U-BK (2U · 8 Slots)		
		Ports	Max LC	Max SC	Ports	Max LC	Max SC
EAP1-CP-12P-D04S02	Duplex LC / Simplex SC	48	96 F	48 F	96	192 F	96 F
EAP1-CP-06P-S03	Simplex FC	24	—	—	48	—	—



ExTell AxiomTravex Rack-Mount Fiber Distribution Frame

Pullable & Hanging Access | CP-Class Adapter Platform | HELIX Splice Management | 1U & 2U

FC / ST Simplex Density Reference

Adapter Plate P/N	Connector Type	EATIR1-04CP04HE-U-BK (1U · 4 Slots)			EATIR2-08CP08HE-U-BK (2U · 8 Slots)		
		Ports	Max LC	Max SC	Ports	Max LC	Max SC
EAP1-CP-06P-S03	Simplex FC	24	24	—	48	48	—
EAP1-CP-06P-S01	Simplex ST	24	—	24	48	—	48

Standards & Compliance

Standard Reference	Description
TIA-568.3-D	Optical Fiber Cabling Components Standard — performance requirements for fiber optic cabling components in commercial buildings
ISO/IEC 11801:2017	Generic Cabling for Customer Premises — international standard for structured cabling in enterprise and data centre environments
EN 50173-1:2018	Information Technology — Generic Cabling Systems — European harmonised structured cabling standard
IEC 61754-20	Fibre Optic Connector Interfaces — LC Connectors — performance requirements for LC type connectors and adapter interfaces
IEC 61754-4	Fibre Optic Connector Interfaces — SC Connectors — performance requirements for SC type connectors and adapters
IEC 61754-13	Fibre Optic Connector Interfaces — FC Connectors — performance requirements for FC type connectors
IEC 61300-3-35	Fibre Optic Interconnecting Devices — Return Loss / Insertion Loss — test and measurement procedures for passive fiber optic components
EIA-310-D	19-Inch Equipment Rack Standard — defines rack unit dimensions, mounting hole patterns, and front panel widths for 19" rack equipment
IEC 60297-3-100	Mechanical Structures for Electronic Equipment — 19" IEC rack and cabinet dimensions
IEC 60068-2	Environmental Testing — methods for thermal cycling, humidity, mechanical shock, and vibration testing of electronic enclosures
IEC 60529 (IP20)	Degrees of Protection — Ingress Protection classification; AxiomTravex Series is rated for indoor controlled environments (IP20)
ISO 9001	Quality Management Systems — requirements for consistent manufacturing quality and product traceability
RoHS 2011/65/EU	Restriction of Hazardous Substances — restricts specified hazardous materials in electrical and electronic equipment; all materials compliant



ExTell AxiomTravex Rack-Mount Fiber Distribution Frame

Pullable & Hanging Access | CP-Class Adapter Platform | HELIX Splice Management | 1U & 2U

Product Ordering Guide

All sub-systems are ordered as independent modules to allow for custom infrastructure tailoring. A complete Fiber Distribution Frame (FDF) deployment requires the selection of a chassis (EAT1 series), the required quantity of adapter plates (EAP1-CP series) per slot, and the corresponding splice trays (EST1-HE series) per tray position, along with the necessary adapters and pigtails. Please ensure that component quantities are specified per slot and position in accordance with individual project design requirements.

AxiomTravex Chassis — EAT1xx-xxCP Series

Part Number	Product Description
EAT1R1-04CP04HE-U-BK	ExTell AxiomTravex Series 1U 4 × CP-Class Slots Extendable Access Rack-Mount Fiber Distribution Frame OPTIGUIDE-R Kit Integrated 4 × Slots HELIX Splice Management Compatible Unloaded Black.
EAT1R2-08CP08HE-U-BK	ExTell AxiomTravex Series 2U 8 × CP-Class Slots Extendable Access Rack-Mount Fiber Distribution Frame OPTIGUIDE-R Kit Integrated 8 × Slots HELIX Splice Management Compatible Unloaded Black.

CP-Class Adapter Plates — EAP1-CP Series (Order 1 per Adapter Plate Slot)

Part Number	Product Description
EAP1-CP-12P-D04S02	ExTell CP-Class Adaptor Plate 12 Ports Supports Duplex LC / Simplex SC Adaptors.
EAP1-CP-06P-S03	ExTell CP-Class Adaptor Plate 06 Ports Supports Simplex FC Adaptors.
EAP1-CP-06P-S01	ExTell CP-Class Adaptor Plate 06 Ports Supports Simplex ST Adaptors.

HELIX Splice Tray — EST1-HE Series (Order 1 per Tray Slot)

Part Number	Product Description
EST1-HE-24F	ExTell HELIX Management Splice Tray 24F Capacity Unloaded with Pigtails.