DENALI™ Fiber Housings

DENALI Fiber Housings support high-speed, high-density fiber network deployments today while enabling tomorrow's data centers to scale seamlessly with the demands of AI-driven infrastructure and accelerating cloud growth.

The modular, tray-based system houses fanout, patch, and splice DENALI cassettes. Designed for GPU-intensive environments, DENALI Fiber Housings support up to 576 fibers (288 LC duplex ports) in 4RU, maximizing capacity, maintaining cable management and enabling easier network scaling as demand grows.

Globally available, DENALI Fiber Housings enhance operational efficiency and accelerate go-live times wherever you build.

Features

- **High Density Connectivity**
  - Modular, universal, tray-based system
  - Up to 288 LC duplex ports (576 fibers) in 4RU

- **Simplified Cable Management for Growing Networks**
  - Integrated rear trunk cable management
  - Removable front patch cord management clips

- **Versatile Installation and Access**
  - 19" rack mountable
  - Robust magnetic front door
  - Same tray for all cassette sizes
  - Front or rear cassette loading with sliding trays that lock in extended position for easy access

- **Universal Tray System**
  - One tray type fits all cassette sizes

Benefits

- Built for 10G to 800G+ networks with minimal disruption
- Modular design supports seamless growth and densification
- Engineered for long-term reliability in AI-scale environments
- Rapid, single-person installation reduces time and labor cost
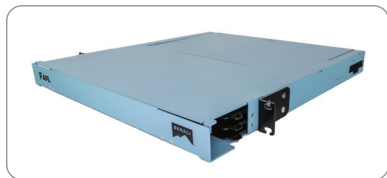- Universal tray and cassette system simplifies ordering, installation and maintenance

Applications

- AI/ML
- Hyperscale
- Colocation
- Campus Networks
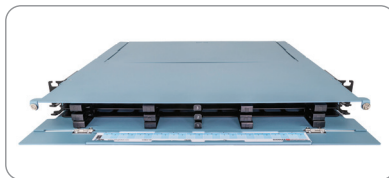- Central Office and Office Backbone

Ordering Information

Description	AFL No.
AFL DENALI 1RU Housing	DENALI-1RU-S
AFL DENALI 2RU Housing	DENALI-2RU-S
AFL DENALI 4RU Housing	DENALI-4RU-S

DENALI™ Fiber Housings
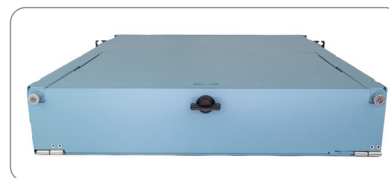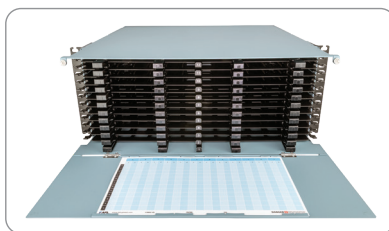

DENALI 1RU

DENALI 1RU front open

DENALI 1RU rear

DENALI 2RU

DENALI 2RU front open

DENALI 2RU rear

DENALI 4RU

DENALI 4RU front open

DENALI 4RU rear

Specifications

Parameter	Model		
	DENALI 1RU	**DENALI 2RU**	**DENALI 4RU**
Rack Space	1 RU	2 RU	4 RU
Fiber Density (BASE-12, BASE-24)	144 (LC), 864 (MPO)	288 (LC), 1,728 (MPO)	576 (LC), 3,456 (MPO)
Fiber Density (BASE-8)	144 (LC), 576 (MPO)	288 (LC), 1,152 (MPO)	576 (LC), 2,304 (MPO)
Number of Trays	3	6	12
Cassette Capacity	18 x BASE-8 Cassettes (6 per tray) 12 x BASE-12 Cassettes (4 per tray) 6 x BASE-24 Cassettes (2 per tray)	36 x BASE-8 Cassettes (6 per tray) 24 x BASE-12 Cassettes (4 per tray) 12 x BASE-24 Cassettes (2 per tray)	72 x BASE-8 Cassettes (6 per tray) 48 x BASE-12 Cassettes (4 per tray) 24 x BASE-24 Cassettes (2 per tray)
Dimensions (HxWxD)	44.5 x 438.2 x 501.6 mm 1.75 x 17.25 x 19.75 in.	88.9 x 438.2 x 501.6 mm 3.5 x 17.25 x 19.75 in.	177.8 x 438.2 x 501.6 mm 7.0 x 17.25 x 19.75 in.
Weight	7.5 kg 16.6 lbs	10.2 kg 22.4 lbs	15.7 kg 34.6 lbs
Color	Blue	Blue	Blue
Material	Metal Components: 16 GA Galvannealed Sheet Steel per ASTM A653	Metal Components: 16 GA Galvannealed Sheet Steel per ASTM A653	Metal Components: 16 GA Galvannealed Sheet Steel per ASTM A653

Qualifications

Governing Body	Standard Code
RoHS	Compliant
REACH	Compliant

AFL

AFLglobal.com
1 (800) 866-7385