太辰光通信

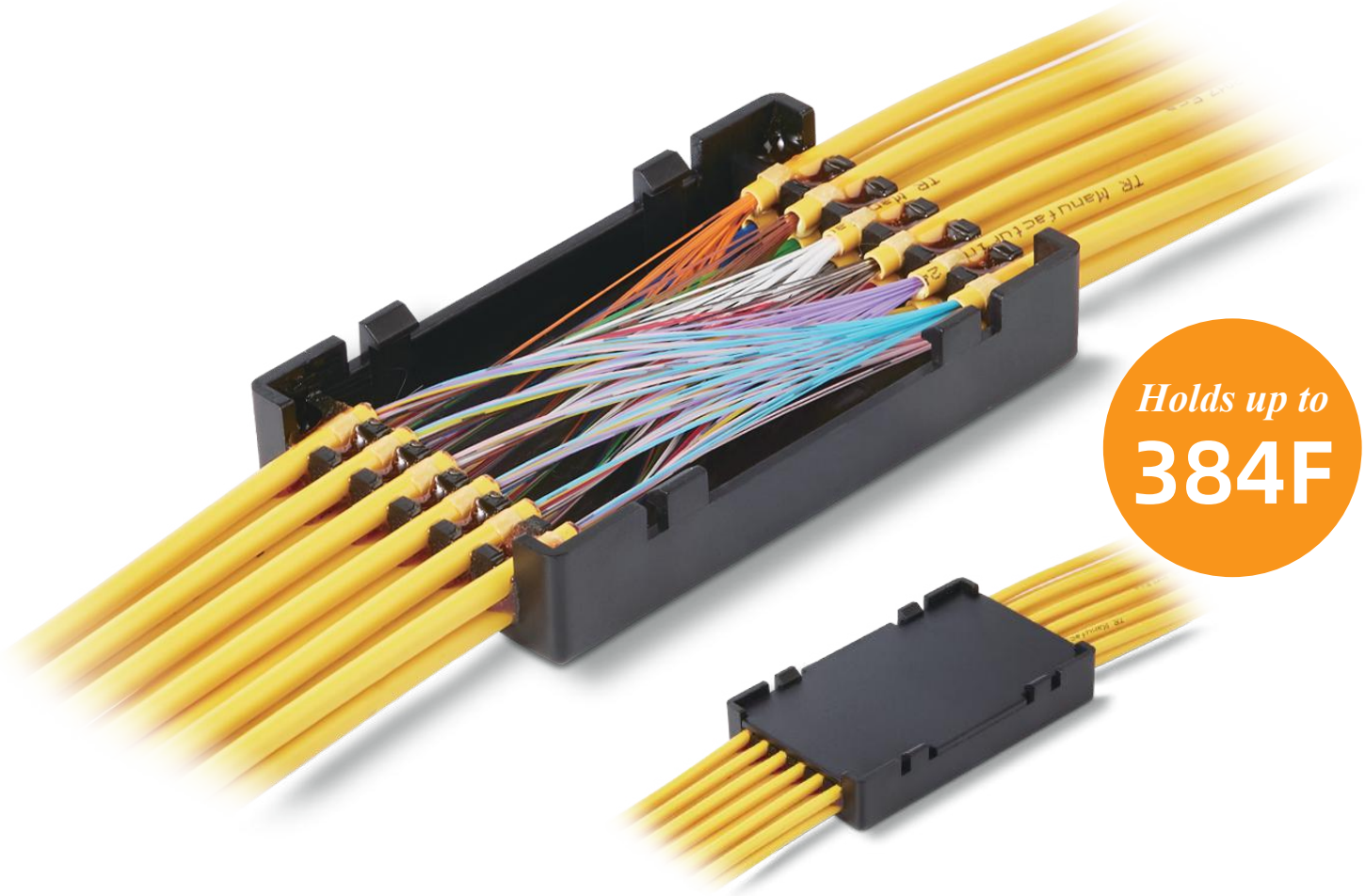
Fiber Routing Management

SHUFFLE MODULE SOLUTION

REACH Compliant

RoHS Compliant

T&S shuffle module system, similar to the fiber optical flex circuit solution, facilitates and simplifies the process of fiber routing meshes of hundreds of fibers. The novel design is engineered to aid fiber management in high density applications by offering a unique, compact, and cost effective way to manufacture and store high density shuffles.



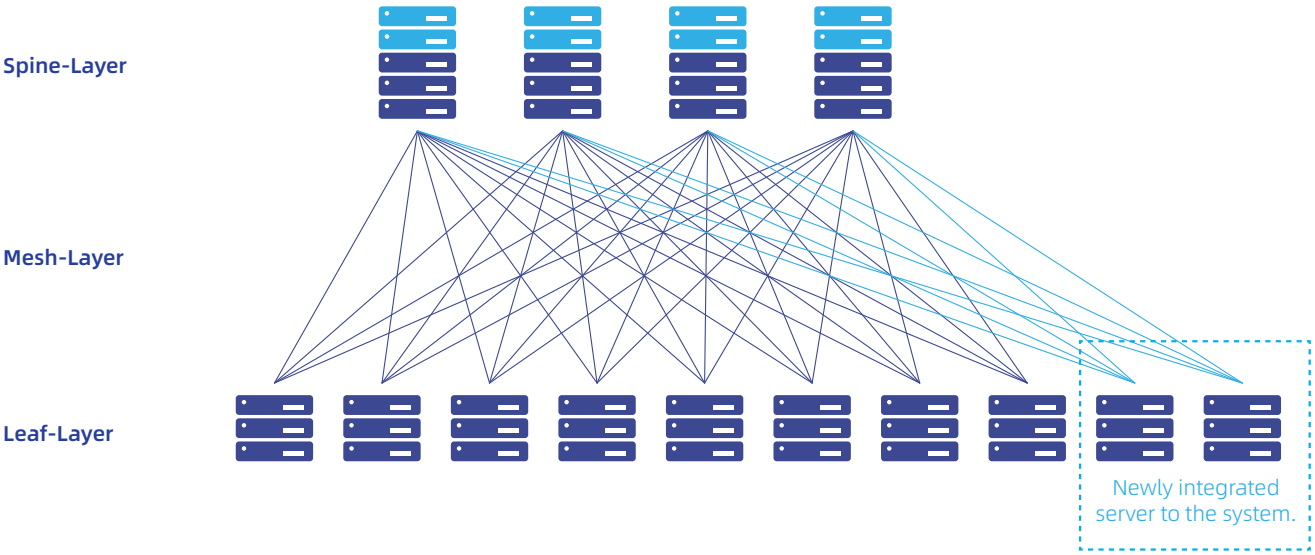
FEATURES

- *Supports up to 16 fibers per ribbon and 16 fibers per shuffle*
- *Manages various configurations of ribbon fiber and round cable*
- *Stackable compact size that can be stored under host PCB or in chassis backplane*
- *Non-outgassing UL 94 V-0 casing material*
- *Operation Temperature: -40 ~ +75 ℃*
- *Mechanical: GR-2866*

Shuffle Module Application in Data Center

The fiber optic cabling in a data center should cater for developments and provide the greatest possible number of parallel optic connections in order to ensure high data rates. To create a spine-leaf architecture, it is therefore necessary to lay fiber optic cable from each leaf switch to each spine switch. This results in an immense amount of cabling effort which, in the worst-case scenario, can be reminiscent of the early days of data centers when confused bundles of cables lay piled up meters high in the double floor.

Fiber optic cables run from the servers to these switches and the capacity of these cables supports the maximum bit rates of the transceivers, servers and switches. In just this way, all the leaf-switch ports are connected to all the spine-switch ports.



Use of shuffle module to implement the spine-leaf architecture. In this case, so-called fiber shuffles are used in the cassette.