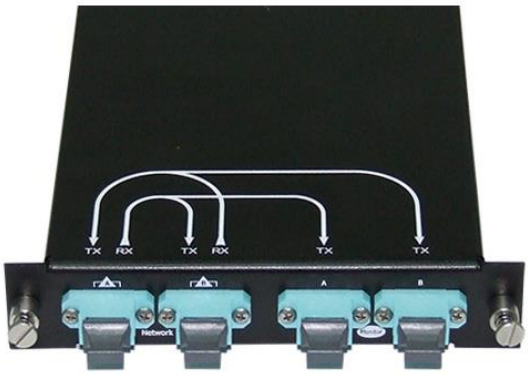
Silicom Connectivity Solutions

## TAPSF-100G

### TAPSF-100G Fiber TAP Stand Alone Unit

### Product Description

The Silicom TAPSF-100G is external passive TAP for 100G-SR10 / 100G-SR4 / 100G-LR4 Fiber Gigabit Ethernet networks.




The Silicom TAPSF-100G captures both sides of the Network links and transmits a copy on to the monitor ports, this feature enables full duplex monitoring of all packets transmitted between the Network ports.

The Silicom TAPSF-100G does not require power; The Silicom TAPSF-100G can be optionally installed in a rack mount frame.

### Key Features

- Supports Fiber Gigabit Ethernet (100G-SR10 / 100G-SR4 / 100G-LR4)
- Passive TAP enables full duplex monitoring for 100G fiber Gigabit Ethernet networks
- Transparent to the network
- Does not require power
- No IP address is needed
- Optional 19-inch rack frame holds up to 3 TAPs

**Figure: 1- TAPSF-100G-SR10, TAPSF-100G-SR4 connections diagram**

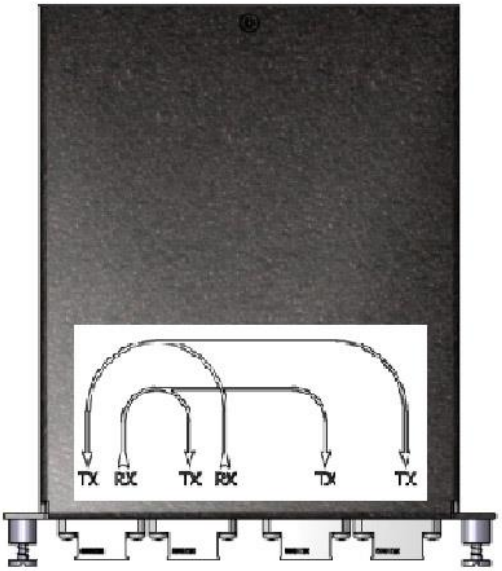
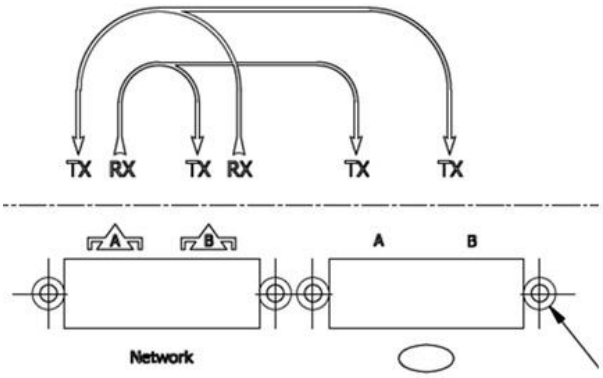


**Figure: 2- TAPSF-100G-LR4: Front panel and connections diagram**

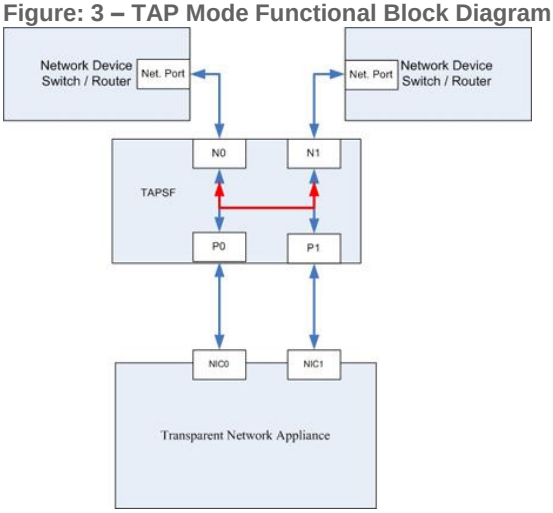



## Technical Specifications

| Fiber Ethernet General Technical Specifications: | |
|---|---|
| **IEEE Standard / Network topology:** | Fiber 100Gigabit Ethernet, 100GBASE-SR10 (850nM)<br>Fiber 100Gigabit Ethernet, 100GBASE-SR4 (850nM)<br>Fiber 40Gigabit Ethernet, 40GBASE-SR4 (850nM) |
| **Fiber core:** | Multimode fiber: 50uM OM4 |
| **Insertion loss ratio:** | -50/50:<br>50% – Network ports to Monitor port<br>50% – Network port to network port |
| **IEEE Standard / Network topology:** | Fiber 100Gigabit Ethernet, 100GBASE-LR4<br>Fiber 100Gigabit Ethernet, 1000BASE-ER4<br>(1295.56nM, 1300.05nM, 1304.58nM, 1309.14nM) |
| **Fiber core:** | Singlemode fiber: 9uM |
| **Insertion loss ratio:** | -60/40:<br>60% – Network ports to Monitor port<br>40% – Network port to network port |
| **General Technical Specifications** | |
| **Size:** | x 120.5mm ( wide) x 148mm (depth) x 27.7mm (height)<br>(4.744″ x 5.827″ x 1.09″) |
| **Weight** | 610 gram (21.52 oz) |
| **Operating Humidity:** | 0%–90%, non-condensing |

| | |
|---|---|
| **Operating Temperature:** | 0°C – 50°C (32°F – 122°F) |
| **Storage Temperature:** | -20°C–65°C (-4°F–149°F) |
| **EMC Certifications:** | Class B |
| **MTBF*:** | > 50 years |

**Figure: 3 – TAP Mode Functional Block Diagram**




## Order Information

| P/N | Description | Notes |
|---|---|---|
| TAPSF-100G-QS10-55 | 100 Gigabit (SR10) Fiber TAP<br>Stand Alone Unit | 50uM Fiber core OM4, splitting ratio 50/50 |
| TAPSF-100G-QS4-55 | 100 Gigabit (SR4) Fiber TAP<br>Stand Alone Unit | 50uM Fiber core OM4, splitting ratio 50/50 |
| TAPSF-100G-LR4-64 | 100 Gigabit (LR4) Fiber TAP<br>Stand Alone Unit | 9uM Fiber core, splitting ratio 60/40 |
| RK-1U-3-PBSS | Rack mount frame for 3x Silicom TAP standalone units. | Optional for 19” / 1U mounting frame |
|  | | |

* The -XX suffix at P/N defines the splitting ratio

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