

Copper Network TAPs

Failsafe and Passive Explained

Introduction

In the event of a power failure, a Copper Network TAP should never be a single point of failure in an IT or OT network. Fortunately, Garland Technology's Copper TAPs are either Passive or have built-in Failsafe preventing the TAP from causing network downtime during a power issue or outage.

Passive Copper TAPs

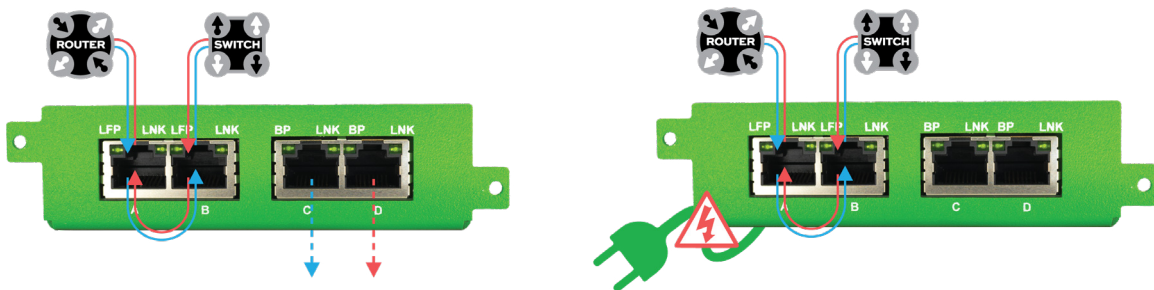
At Garland Technology, our passive Copper TAPs for 10M/100M network speeds are designed to keep the network link active during both power loss and restoration. Because the TAP's network ports remain physically connected, traffic continues to flow with zero interruption even when the TAP undergoes a power cycle.

Copper TAPs with Failsafe

In the rare event that a 1G Copper TAP experiences a power loss, Garland Technology 1G Copper TAPs are engineered to meet strict IEEE standards for Copper wired networks. This built-in failsafe functionality of a 1G Copper TAP ensures the traffic between the connected network devices continues to flow if the TAP loses power. This standards-based design has been proven by Garland Technology's CEO and CTO for over 25 years without a single field complaint.

How Failsafe Works in Copper TAPs

Garland Technology's failsafe mechanism detects a power loss to the 1G Copper TAP and immediately activates an internal relay. This relay responds in just milliseconds directly connecting the network ports so the two network devices re-establish link with each other. Packets in flight are retransmitted so no packets are lost. If you are installing a 1G Copper TAP, then failsafe design is a must.



If failsafe is a concern, then plug a 1G Copper TAP into a uninterruptible power supply (UPS) as you would any of your network equipment (Router, Switch, Firewall).

A Note on Safety Standards

Garland Technology does not use lithium-ion batteries in any TAPs. We do not recognize lithium-ion as an acceptable standard for these devices.



1G Copper TAPs with built-in failsafe:

Product Number			
P1GCCB	P1GCSAS	P1GCCBPPOE+	M1GCSBP
P1GCCBP	P1GCUA_mini	P1GCSBPPOE+	M1GCCF
P1GCSBP	P1GCCFE	M1GCCB	M1GCSF
P1GCCAS	P1GCSFE	M1GCCBP	INT1G10CSA
P1GCCB-OT	P1GCCBPPOE+	P1GCSBPPOE+	P1GCCBPE
P1GCSBPE			

10/100M Passive Copper TAPs:

Product Number	
PT100	M100CCB
P100CCA	M100CCA

A Note on Power over Ethernet

When powering an end point device, a Network TAP that passes Power over Ethernet (PoE) is required. Applications include connecting a Network TAP to a telephone and wireless access point. Here is a list of Garland Technology Copper TAPs that support Power over Ethernet.

Product Number			
P1GCCB	P1GCCB_OT	P1GCCBPPOE+	P1GCSBPPOE+E
PT100	M1GCCB	P1GCSBPPOE+	
P1GCUA_mini	M100CCB	P1GCCBPPOE+E	



Have Questions?

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