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# Router Light and Cabling Checks

For DSL, FTTC & FTTP Routers

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## Introduction

The purpose of this document is to document what cabling checks need to be done on the routers and what light statuses we require to determine how to progress the fault.

Please Note, when providing light statuses, it is imperative that we obtain what colour the light is and whether it is Solid, Flashing or Off.

## Differing models

Please note that the location of some of the lights or ports may differ for different variances of the same router model.

They will still be in roughly the same location and labelled in a similar way.

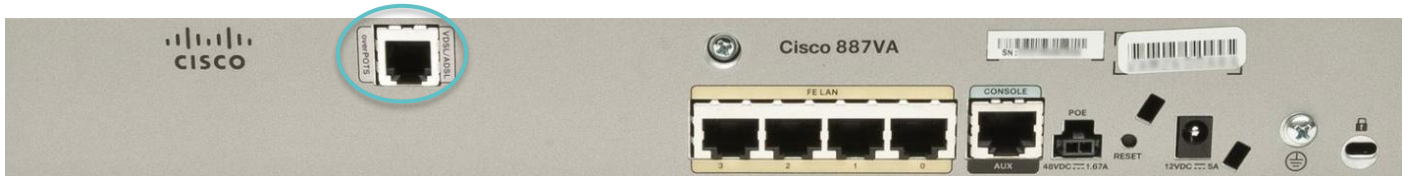
This guide does not cover all models, only the most common ones.

## Cisco Routers

### Model: Cisco 887



**Lights required:** OK, CD & PPP



**Cable port to check:** VDSL/ADSL

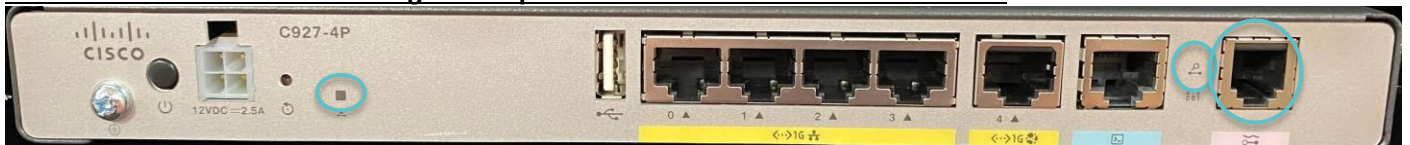
### Model: Cisco 891



**Lights required:** OK & PPP

**Cable port to check:** This can vary per setup, check all cables to ensure they are seated correctly.

### Model: Cisco 927-4P – Note: All lights and ports are on the same side of the device



**Lights required:** System (Left hand side circle) & CD (Right hand side circle)

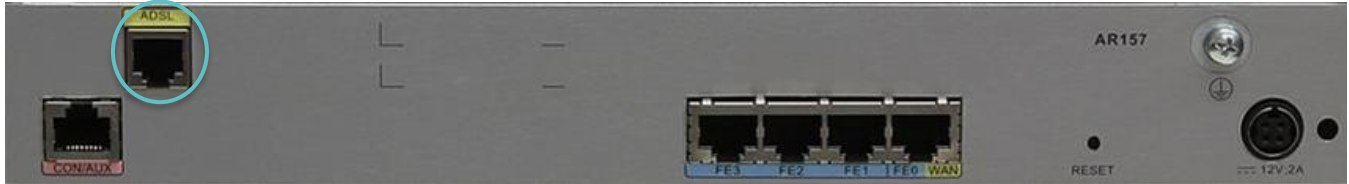
**Cable port to check:** This can vary per setup, check all cables to ensure they are seated correctly, VDSL port is key on the right-hand side, circle above.

# Huawei Routers

## Model: Huawei AR157

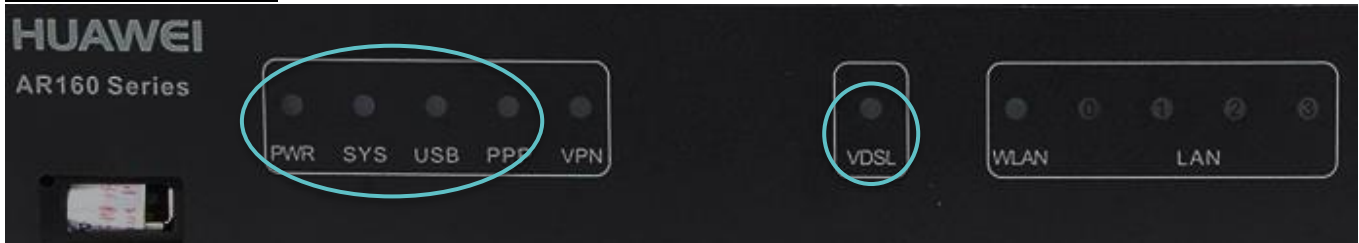


Lights Required: PWR, SYS, PPP & Link

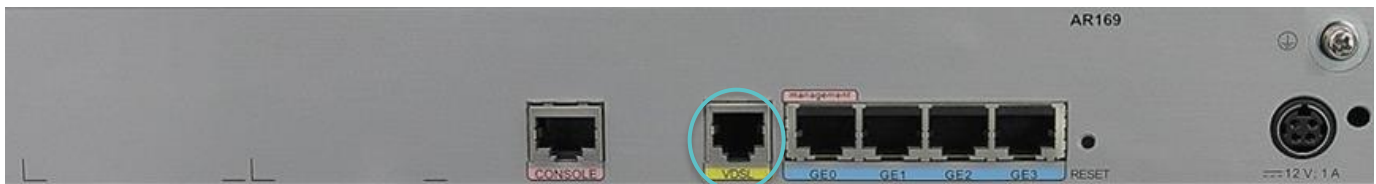


Cable port to check: ADSL

## Model: Huawei AR169



Lights Required: PWR, SYS, PPP & VDSL (VDSL 0 on some models)



Cable port to check: VDSL

## BT Sockets

On each setup, there will be a BT Phone socket that looks similar or the same as this:



Some sockets may have a DSL filter built in, in which case there may be two ports on it like this:



For the sockets that have a single port, they should have a DSL Microfilter connected that looks like this:



If you have a socket which has two connections on it, a microfilter is not required

If you have a socket with one port, the connectivity will be:

**BT Socket > Micro Filter > RJ11 cable between Modem port on filter > Router VDSL/ADSL Port**

If you have a socket with two ports, the connectivity will be:

**BT Socket (Modem Port) > RJ11 cable between Modem port on filter > Router VDSL/ADSL Port**

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