SPITFIRE ETHERNET CIRCUIT INFORMATION



NTE: Network Termination Equipment

Etherway: the maximum potential bandwidth of the physical fibre/copper bearer

Etherflow: the actual purchased bandwidth (over a given Etherway)

Copper Ethernet (BT Wholesale)

Hatteras/Overture HN408CP [https://www.google.co.uk/images?q=hn408cp] NTE Type: NTE Interface

The CPE normally needs to be capable of VLAN tagging. Spitfire commonly* supplies a Cisco C1111-4P***/C1111-8P/C1117 RJ45 port on the NTE, via cross-over cable, to RJ45 port 0/0/0 on CPE.

How to Connect

Fibre Ethernet (BT Wholesale, TalkTalk Business or Openreach) Etherway: 1 Gh/s - Default Fibre Presentat 1 Gb/s - Optional RI45 Presentation ADVA FSP150CP NTE Type: RJ45. SFP Module (Multi-mode; MMF) with an LC Interface SFP Module (Single-mode; SMF) with an SC Interface Subject to availability. Must have been requested at point of sale. RJ45. nector]. ≤200 Mb/s Etherflow: Spitfire commonly* supplies a Cisco C1111-4P***/C1111-8P/C1117 or a Juniper SRX320/SRX340** СРЕ >200 Mb/s Etherflow: Spitfire commonly* supplies a Juniper SRX320/SRX340** A 10 Gb/s Etherway requires 10 Gb termination Cisco C1111-4P***/C1111-8P/C1117: RJ45 port on the NTE, via cross-over cable, to RJ45 port 0/0/0 on CPE Cisco C1111-4P***/C1111-8P/C1117: LC interface on the NTE, via LC-LC fibre optic patch lead, to LC interface (usually port G0/0/0) on CPE. Cisco C1111-4P***/C1111-8P/C1117: RJ45 port on the NTE via cross-over cable, to RJ45 port 0/0/0 on CPE. At the time of writing Spitfire does not commonly* supply these routers. How to Connect: Juniper SRX320/SRX340** Juniper SRX320/SRX340**: LC interface on the NTE, via LC-LC fibre optic patch lead, to LC interface (usually port 15) on CPE. Juniper SRX320/SRX340**: RJ45 port on the NTE via cross-over cable, to RJ45 port 7 on CPE. RJ45 port on the NTE via cross-over cable, to RJ45 port 7 on CPE.

Fibre Ethernet (Virgin Media Business)		
Туре:	Default RJ45 Presentation	Optional Fibre Presentation
NTE Type:	The NTE varies (but is commonly an Alcatel-Lucent OmniSwitch).	
NTE Interface:	RJ45.	MMF. If the NTE has multiple ports, the one to use is typically FE1/1 or GE1/9. Spitfire Provisioning will normally confirm the port number to use.
CPE:	≤200 Mb/s Circuits: Spitfire commonly* supplies a Cisco C1111-4P***/C1111-8P/C1117 or a Juniper SRX320/SRX340** >200 Mb/s Circuits:	
	Spitfire commonly* supplies	a Juniper SRX320/SRX340**
How to	Cisco C1111-4P***/C1111-8P/C1117: RJ45 port (commonly FE1/1 or GE1/9) on the NTE, via cross-over cable, to RJ45 port 0/0/0 on CPE	Cisco C1111-4P***/C1111-8P/C1117: LC interface on the NTE, via LC-LC fibre optic patch lead, to LC interface (usually port G0/0/0) on CPE.
Connect:	<u>Juniper SRX320/SRX340**;</u> RJ45 port (commonly FE1/1 or GE1/9) on the NTE via cross-over cable, to RJ45 port 7 on CPE.	<u>Juniper SRX320/SRX340**</u> : LC interface on the NTE, via LC-LC fibre optic patch lead, to LC interface (usually port 15) on CPE.

Fibre Ethernet (COLT)

The NTE varies (but is commonly an Accedian MetroNODE LT-\$).

RJ45. If the NTE has multiple ports, the one to use is typically FE1/1 or GE1/9 but Spitfire Provisioning will normally confirm the port number to use

RJ45 port on the CPE, via cross-over cable, to RJ45 port on the NTE (commonly FE1/1 or GE1/9)

FTTC Ethernet (BT Wholesale)

NTE Type: NTE Interface: The FTTC Ethernet service uses VDSL2 and terminates on an Openreach NTE5.

Openreach NTE5.

The customer CPE router must include an integrated VDSL2 modem - for Cisco routers, a VDSL2 WAN Interface Card (WIC). Spitfire may also supplies a DrayTek router which includes a VDSL2 modem POTS lead from router (either DSL port or DSL WIC) to Openreach NTES. Please also follow the DSL Information Sheet at https://www.spitfire.co.uk/about/knowledge-base/ especially to avoid double

FTTC Ethernet (TalkTalk Business)

The FTTC Ethernet service uses VDSL2 and terminates on an Openreach NTE5. TalkTalk Business typically provide a Comtrend VR3030 modem [https://www.google.co.uk/images?q=Comtrend+VR3030] as the NTE. NTE Type: NTE Interface:

The FTT CERTIFIED SERVICE USES VIDSL2 and terminates on an Openheach NTES. Talk Talk Business RM55 port on the Talk Talk Business VIDSL2 modem. Spitfire may supply a DrayTek router. RJ45 port on the Talk Talk Business NTE, via cross-over cable, to the WAN port on the CPE router.

How to Connect: A steady DSL light on the TalkTalk Business NTE indicates sync. The Internet light will remain extinguished (this is correct behavior)

A note on the use of Media Converters

Spitfire recommends against the use of Media Converters such as those used to convert between fibre and copper. It is instead recommended that a customer's router be directly connected to the supplier NTE via a single cable. Any advice or guidance from Spitfire in relation to Media Converters would be limited and provided on a non-guaranteed basis. Spitfire-supplied routers have the interface and cable to match the interface on the NTE without the need for a Media Converter.

Additional Information

The above information was correct at the time of publishing.

This document is intended as a support reference guide and not for sales purposes.

*N.B. supplied hardware is likely to change over time.

**Juniper SRX340 is usually recommended over a SRX320 for use with Ethernet circuits of 500 Mb/s or greater (for BT Wholesale, TalkTalk Business or Openreach that refers to the Etherflow).

***Cisco C1111-8P is usually recommended over a C1111-4P for use with Ethernet circuits of 500 Mb/s or greater (for BT Wholesale, TalkTalk Business or Openreach that refers to the Etherflow.

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For assistance please contact Spitfire Support on 020 7501 3030 or via support@spitfire.co.uk.

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