



Kiemelt PON pontok MultiGbps szolgáltatás 10G EPON hálózaton ARRIS / Virgin Media esettanulmány

The ARRIS product roadmap contained herein is provided for information purposes only and is intended only to outline ARRIS presently anticipated general technology direction. The Information in the roadmap is not a commitment or an obligation to deliver any product, product feature or software functionality and ARRIS reserves the right to make changes to the content and timing of any product, product feature or software release. Prices for any future product or software included herein will be separately negotiated when and if such product or software becomes available.

Pricing information, if included, is for discussion purposes only and does not constitute an offer to sell at those prices.

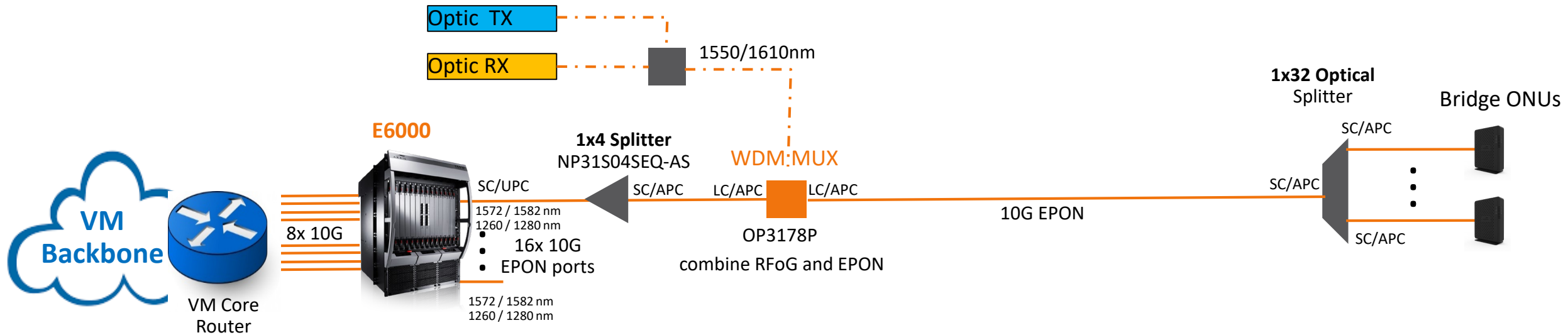


Cambridge EPON Trial – Scope & Definition

Background

- Virgin Media has requested support from ARRIS to undertake “Next Gen Speed” FTTH trial in Cambridge.
 - Up to 50 subscribers
 - Up to 10 Gbps target speed delivered to the home
- ARRIS RFoG system already deployed and network well known to ARRIS given previous trial activity in the past
 - Successful RFoG trial in 2014
- ARRIS E6000 CCAP already deployed in Cambridge headend
- ARRIS propose to leverage E6000 based EPFM PON blade in conjunction with ARRIS EPON CPE devices.
 - This approach will enable VM to offer a 10 Gbps symmetrical service with a faster time to trial

Virgin Media Cambridge Field Trial



- ARRIS undertakes the deployment of “Next Gen Speed” FTTH trial in Cambridge area to give 10 Gbps service for residential customers
- 1:128 split per 10G EPON port overlays existing ARRIS/Aurora RFoG deployment (deployed in 2014)

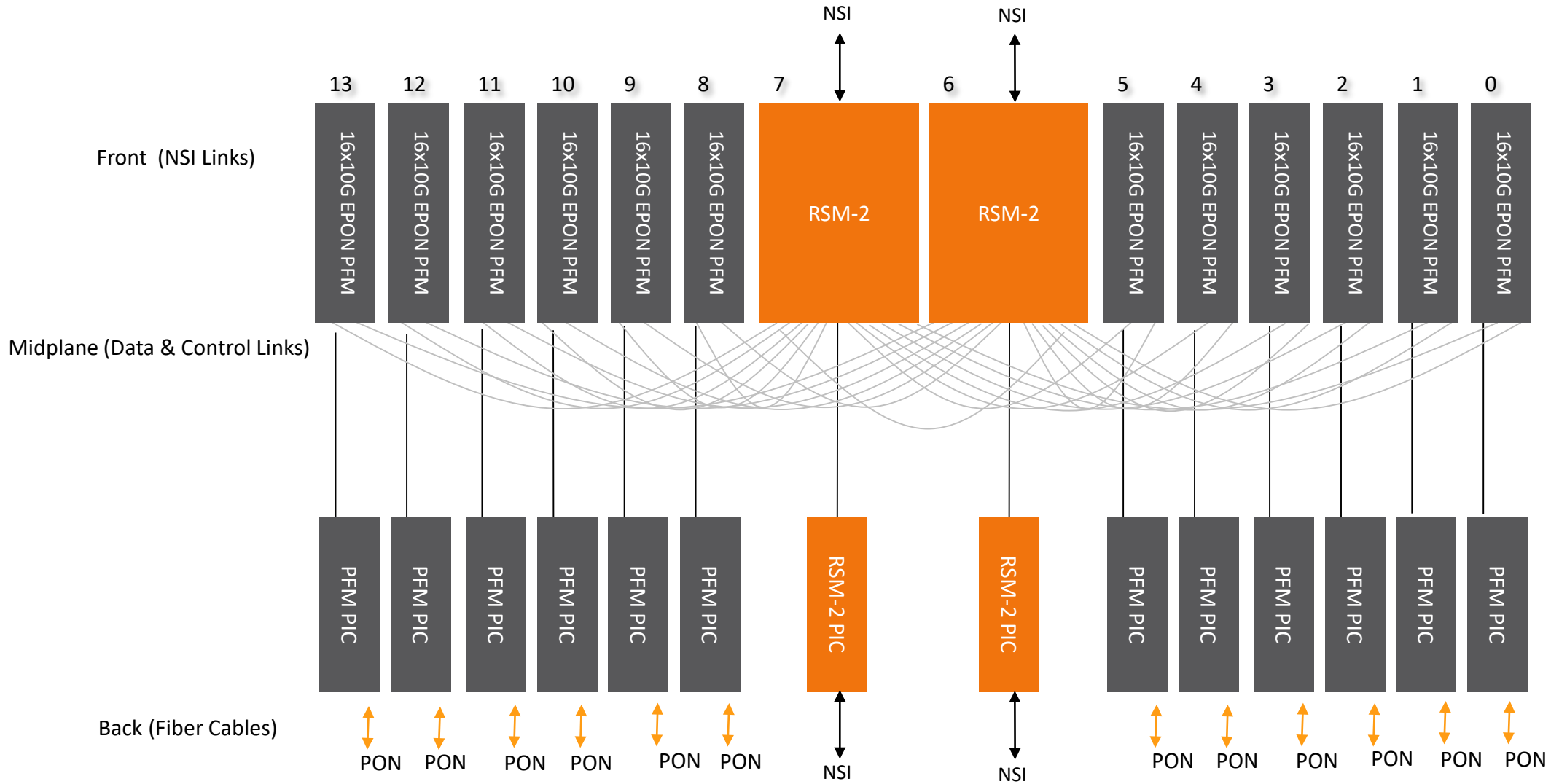
E6000 10G EPON OLT

Highlights

- IEEE 802.3-2012 compliant EPFM (EPON Fiber Module)
- High density
 - Up to 192 10G XFP EPON ports per chassis = 16 ports per EPFM X 12 EPFMs per chassis
 - Supports 10G EPON PR(X)30 XFP optics modules or 10Gb Ethernet DWDM XFP optics modules (for PON extender applications)
- “Cable once”
 - with fiber connectors (SC) on rear PFM PIC
- DPoE V2.0 compliant
 - fully leverage DOCSIS back office
- SIEPON package A compliant
 - enabling 3rd party ONU interoperability
- Compliant with CCAP EPON requirements
- Fully leverages existing E6000 features



E6000 10G EPON Configuration



- 10G EPON Bridge Mode ONU
 - Tier One operators specifying bridge mode ONU designs, part of a two-box solution, with subtended GW and Wi-Fi extenders
 - DPoE v2.0 and Packetcable 2.0
- 10G EPON Gateway ONU
 - For operators specifying an integrated GW ONU, ARRIS leveraging the NVG578 platform
 - Multiservice interfaces and support for RDK and DPoE v2.0 for 10G EPON
- Turbo Mode ONU
 - Developing a Turbo mode solution for operators requiring Turbo mode transition to 10G EPON
 - 2/1 Turbo speed, 4x1GE data ports, 2xPOTs, dual-band Wi-Fi, with RF overlay
 - Integrated Gateway w/RF overlay prototype entering field trial in mid-July with the EPFM/E6000

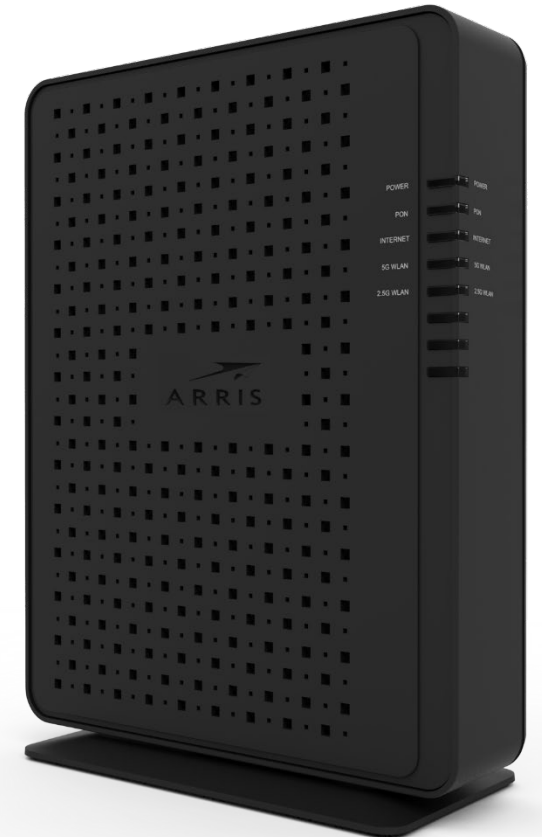
10G EPON Bridge ONU Overview

- Key Hardware Features

- Supports PON-to-Premise demarcation (multi-box solution) and commercial services applications
- BOSA on Board 10G EPON optics
- 1x10/5/2/1 GE data port
- 2xPOTS port
- External battery backup interface
- Enclosure includes fiber management runway and fiber connector protection cover

- Service Configuration

- DPoE v2.0 for OLT interoperability and PON link management
 - Data services and service flows configured via DPoE
 - Multicast and unicast support for IPTV



EPON Trial CPE Solution – Proposed Stages

Phs 1- Initial Trial



RFoG ONU 10G
Qty x 10



SFP
Qty x 10



Bridge ONU 10G
Qty x 10



Ruckus
ICX-7150-C12p
Switch



Sam
Knows

Samknows

Ruckus R730

In Home Service:
- 1G Wifi & Ethernet
- 10Gbe WAN

Phs 2 – Full Trial Under investigation



RFoG ONU 10G
Qty x 40



NVG578
LAN: Concurrent 2.4GHz and 5GHz Wi-Fi support
for 802.11ac or 802.11ax
Qty x 50

In Home Service:
- 10G WAN
- ~1Gbps Wifi