

EPoC PHY Name

Marek Hajduczenia, PhD

marek.hajduczenia@mybrighthouse.com

EPoC PHY Name

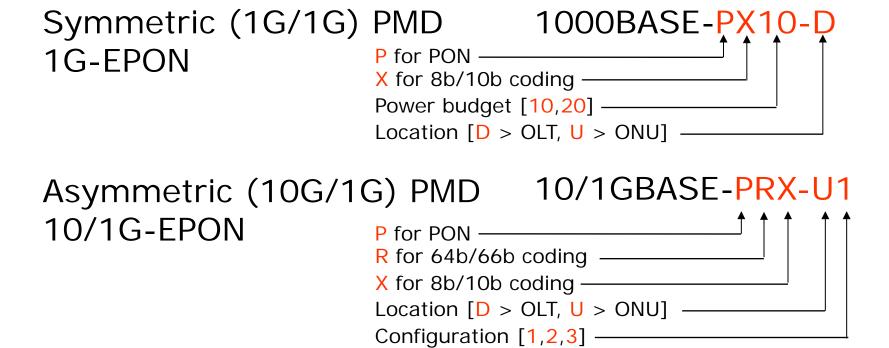


Why it matters?

- We're beginning to get seriously involved in the draft development and in multiple locations, PHY name will be needed to refer to the THING we are developing
- PHY name should be descriptive and meaningful to the group as well as the world outside.
- PHY name carries information type of encoding used in PHY, modulation format, medium type, data rate, etc. and is a mnemonic summary of PHY capabilities.
- Is this a good time to pick a name for EPoC PHY?
 - The sooner, the better we have most needed information about EPoC
 PHY already (64B/66B encoded, OFDM modulation, operating on coax, at the variable rate of up to 10G)
 - Once settled, it will be used in the draft, presentations, etc., and become a de-facto calling card for EPoC

EPON PHY Naming Explained





Symmetric (10G/10G) PMD 10GBASE-PR-D1
10/10G-EPON

P for PON

R for 64b/66b coding

Location [D > OLT, U > ONU]

Configuration [1,2,3]

EPoC What?



Here is what we know about EPoC PHY:

Operates at the data rate up to 10Gb/s: 10G

Operates with OFDM modulation: PASS

– 64B/66B encoded:

R

Operates over coax:X (?)

Number of PMD instances: x (1-4)

Putting it together: 10GPASS-XRx

- X is used for coax, since C is already used for backplane media operating also over copper channels.
 - It is unfortunate, but suggest to avoid overlap with backplane PMDs
- x indicates the number of PMD instances in the given PHY (1-4) and indicates the effective data rate capability for the PHY



THANKS!