# 802.3ca Terms & Definitions

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# 25G-ONU Definitions

**25/10G-ONU:** An EPON ONU supporting the maximum sustained throughput of 25 Gb/s in downstream direction and 10 Gb/s in upstream direction (asymmetric rate).

**25/25G-ONU:** An EPON ONU supporting the maximum sustained throughput of 25 Gb/s in downstream and upstream directions (symmetric rate).

**25G-ONU:** An EPON ONU supporting the maximum sustained throughput of 25 Gb/s in either downstream or both downstream and upstream directions. This term collectively refers to 25/10G-ONU and 25/25G-ONU devices.

# 50G-ONU Definitions

**50/25G-ONU:** An EPON ONU supporting the maximum sustained throughput of 50 Gb/s in downstream direction and 25 Gb/s in upstream direction (asymmetric rate).

**50/50G-ONU:** An EPON ONU supporting the maximum sustained throughput of 50 Gb/s in downstream and upstream directions (symmetric rate).

**50G-ONU:** An EPON ONU supporting the maximum sustained throughput of 50 Gb/s in either downstream or both downstream and upstream directions. This term collectively refers to 50/25G-ONU and 50/50G-ONU devices.

# 100G-ONU Definitions

**100/25G-ONU:** An EPON ONU supporting the maximum sustained throughput of 100 Gb/s in downstream direction and 25 Gb/s in upstream direction (asymmetric rate).

**100/50G-ONU:** An EPON ONU supporting the maximum sustained throughput of 100 Gb/s in downstream direction and 50 Gb/s in upstream direction (asymmetric rate).

**100/100G-ONU:** An EPON ONU supporting the maximum sustained throughput of 100 Gb/s in downstream and upstream directions (symmetric rate).

**100G-ONU:** An EPON ONU supporting the maximum sustained throughput of 100 Gb/s in either downstream or both downstream and upstream directions. This term collectively refers to 100/25G-ONU, 100/50G-ONU, and 100/100G-ONU devices.

# PHY Definitions



**[DU]25GBASE-PR:** A collection of IEEE 802.3 Physical Layer specifications for a 25 Gb/s point-to-multipoint link over one single-mode optical fiber. The placeholders D and U denote the number of downstream and upstream lanes supported by the given PHY, as follows:

| | Downstream Lanes | Upstream Lanes |
|---|---|---|
| **25GBASE_PR** | 1 | 1 |
| **DS25GBASE_PR** | 2 | 1 |
| **D25GBASE_PR** | 2 | 2 |
| **QS25GBASE_PR** | 4 | 1 |
| **QD25GBASE_PR** | 4 | 2 |
| **Q25GBASE_PR** | 4 | 4 |

S = single, D = double, Q = quadruple

# Thank You