

# Apticom AOC/DAC Product Guide

How can we light up your day?



| Product Family                                     | Ethernet                          | OTN | Form Factor                 | Max. Data Rate | Reach      | Max. Case Temp. Range |
|--|-----------------------------------|-----|-----------------------------|----------------|------------|-----------------------|
| <b>800G AOC</b>                                    | 800GBase                          |     | OSFP to OSFP                | 850 Gb/s       | up to 70m  | 0°C to 70°C           |
|  | 800GBase                          |     | QSFP-DD to QSFP-DD          | 850 Gb/s       | up to 70m  | 0°C to 70°C           |
|  | 800GBase                          |     | OSFP to QSFP-DD             | 850 Gb/s       | up to 70m  | 0°C to 70°C           |
|  | 800GBase Breakout Cable           |     | OSFP to 2x OSFP             | 850 Gb/s       | up to 70m  | 0°C to 70°C           |
|  | 800GBase Breakout Cable           |     | OSFP to 2x QSFP-DD          | 850 Gb/s       | up to 70m  | 0°C to 70°C           |
|  | 800GBase Breakout Cable           |     | QSFP-DD to 2x QSFP-DD       | 850 Gb/s       | up to 70m  | 0°C to 70°C           |
| <b>800G DAC</b>                                    | 800GBase                          |     | OSFP to OSFP ACC            | 850 Gb/s       | up to 5m   | 0°C to 70°C           |
|  | 800GBase                          |     | OSFP to OSFP AEC            | 850 Gb/s       | up to 7m   | 0°C to 70°C           |
|  | 800GBase                          |     | QSFP-DD to QSFP-DD DAC      | 850 Gb/s       | up to 2,5m | 0°C to 70°C           |
|  | 800GBase                          |     | QSFP-DD to QSFP-DD ACC      | 850 Gb/s       | up to 5m   | 0°C to 70°C           |
|  | 800GBase                          |     | QSFP-DD to QSFP-DD AEC      | 850 Gb/s       | up to 7m   | 0°C to 70°C           |
|  | 800GBase                          |     | OSFP to 2x OSFP ACC         | 850 Gb/s       | up to 5m   | 0°C to 70°C           |
|  | 800GBase                          |     | OSFP to 2x OSFP AEC         | 850 Gb/s       | up to 7m   | 0°C to 70°C           |
|  | 800GBase                          |     | OSFP to 4x OSFP ACC         | 850 Gb/s       | up to 5m   | 0°C to 70°C           |
| <b>400G AOC</b>                                    | 400GBase                          |     | OSFP to OSFP                | 425 Gb/s       | up to 70m  | 0°C to 70°C           |
|  | 400GBase Breakout Cable           |     | OSFP to 2x QSFP56 (200G)    | 425 Gb/s       | up to 70m  | 0°C to 70°C           |
|  | 400GBase Breakout Cable           |     | OSFP to 4x QSFP28 (100G)    | 425 Gb/s       | up to 70m  | 0°C to 70°C           |
|  | 400GBase Breakout Cable           |     | OSFP to 8x SFP56 (50G)      | 425 Gb/s       | up to 70m  | 0°C to 70°C           |
|  | 400GBase                          |     | QSFP-DD to QSFP-DD          | 425 Gb/s       | up to 70m  | 0°C to 70°C           |
|  | 400GBase Breakout Cable           |     | QSFP-DD to 2x QSFP56 (200G) | 425 Gb/s       | up to 70m  | 0°C to 70°C           |
|  | 400GBase Breakout Cable           |     | QSFP-DD to 4x QSFP56 (100G) | 425 Gb/s       | up to 70m  | 0°C to 70°C           |
|  | 400GBase Breakout Cable           |     | QSFP-DD to 4x QSFP28 (100G) | 425 Gb/s       | up to 70m  | 0°C to 70°C           |
|  | 400GBase Breakout Cable           |     | QSFP-DD to 8x SFP56 (50G)   | 425 Gb/s       | up to 70m  | 0°C to 70°C           |
|  | 400GBase Breakout Cable           |     | QSFP-DD to 8x SFP56 (50G)   | 425 Gb/s       | up to 70m  | 0°C to 70°C           |
| <b>400G DAC</b>                                    | 400GBase (passive)                |     | OSFP to OSFP                | 425 Gb/s       | up to 3m   | 0°C to 70°C           |
|  | 400GBase Breakout Cable           |     | OSFP to 2x QSFP56 (200G)    | 425 Gb/s       | up to 3m   | 0°C to 70°C           |
|  | 400GBase Breakout Cable           |     | OSFP to 4x QSFP28 (100G)    | 425 Gb/s       | up to 3m   | 0°C to 70°C           |
|  | 400GBase Breakout Cable           |     | OSFP to 8x SFP56 (50G)      | 425 Gb/s       | up to 3m   | 0°C to 70°C           |
|  | 400GBase (passive)                |     | QSFP-DD to QSFP-DD          | 425 Gb/s       | up to 2.5m | 0°C to 70°C           |
|  | 400GBase Breakout Cable           |     | QSFP-DD to 2x QSFP56 (200G) | 425 Gb/s       | up to 2.5m | 0°C to 70°C           |
|  | 400GBase Breakout Cable           |     | QSFP-DD to 4x QSFP28 (100G) | 425 Gb/s       | up to 2.5m | 0°C to 70°C           |
|  | 400GBase Breakout Cable           |     | QSFP-DD to 8x SFP56 (50G)   | 425 Gb/s       | up to 2.5m | 0°C to 70°C           |
| <b>200G AOC</b>                                    | 200GBase                          |     | QSFP-DD to QSFP-DD          | 212,5 Gb/s     | up to 70m  | 0°C to 70°C           |
|  | 200GBase Breakout cable           |     | QSFP-DD to 2x QSFP28 (100G) | 212,5 Gb/s     | up to 70m  | 0°C to 70°C           |
|  | 200GBase                          |     | QSFP56 to QSFP56            | 212,5 Gb/s     | up to 70m  | 0°C to 70°C           |
| <b>200G DAC</b>                                    | 200GBase (passive)                |     | QSFP-DD to QSFP-DD          | 212,5 Gb/s     | up to 2.5m | 0°C to 70°C           |
|  | 200GBase Breakout cable           |     | QSFP-DD to 2x QSFP28 (100G) | 212,5 Gb/s     | up to 2.5m | 0°C to 70°C           |
|  | 200GBase Breakout cable           |     | QSFP-DD to 8x SFP28 (25G)   | 212,5 Gb/s     | up to 2.5m | 0°C to 70°C           |
|  | 200GBase (passive)                |     | QSFP56 to QSFP56            | 212,5 Gb/s     | up to 2.5m | 0°C to 70°C           |
| <b>100G AOC</b>                                    | 100GBase                          | ■   | QSFP28 to QSFP28            | 111.8 Gb/s     | up to 100m | 0°C to 70°C           |
|  | 100GBase Breakout Cable           |     | QSFP28 to 4x SFP28 (25G)    | 103,1 Gb/s     | up to 100m | 0°C to 70°C           |
| <b>100G DAC</b>                                    | 100GBase (passive)                |     | QSFP28 to QSFP28            | 103,1 Gb/s     | up to 5m   | 0°C to 70°C           |
|  | 100GBase Breakout Cable           |     | QSFP28 to 2x QSFP28 (50G)   | 103,1 Gb/s     | up to 5m   | 0°C to 70°C           |
|  | 100GBase Breakout Cable           |     | QSFP28 to 4x SFP28 (25G)    | 103,1 Gb/s     | up to 5m   | 0°C to 70°C           |
|  | 100GBase (active)                 |     | QSFP28 to QSFP28            | 103,1 Gb/s     | up to 15m  | 0°C to 70°C           |
|  | 100GBase (active) Breakout Cable  |     | QSFP28 to 2x QSFP28 (50G)   | 103,1 Gb/s     | up to 15m  | 0°C to 70°C           |
|  | 100GBase (active) Breakout Cable  |     | QSFP28 to 4x SFP28 (25G)    | 103,1 Gb/s     | up to 15m  | 0°C to 70°C           |
| <b>50G AOC</b>                                     | 50GBase                           |     | SFP56 to SFP56              | 53.1 Gb/s      | up to 50m  | 0°C to 70°C           |
| <b>50G DAC</b>                                     | 50GBase Breakout Cable            |     | QSFP28 to 2x SFP28 (25G)    | 53.1 Gb/s      | up to 5m   | 0°C to 70°C           |
|  | 50GBASE (passive)                 |     | SFP56 to SFP56              | 53.1 Gb/s      | up to 5m   | 0°C to 70°C           |
| <b>40G AOC</b>                                     | 40GBase                           |     | QSFP+ to QSFP+              | 41.2 Gb/s      | up to 100m | 0°C to 70°C           |
|  | 40GBase Breakout Cable            |     | QSFP+ to 4x SFP+ (10G)      | 41.2 Gb/s      | up to 100m | 0°C to 70°C           |
| <b>40G DAC</b>                                     | 40GBase-T (passive)               |     | QSFP+ to QSFP+              | 41.2 Gb/s      | up to 5m   | 0°C to 70°C           |
|  | 40GBase-T Breakout Cable          |     | QSFP+ to 4x SFP+ (10G)      | 41.2 Gb/s      | up to 5m   | 0°C to 70°C           |
|  | 40GBase-T (active)                |     | QSFP+ to QSFP+              | 41.2 Gb/s      | up to 10m  | 0°C to 70°C           |
|  | 40GBase-T (active) Breakout Cable |     | QSFP+ to 4x SFP+ (10G)      | 41.2 Gb/s      | up to 10m  | 0°C to 70°C           |
| <b>25G AOC</b>                                     | 25GBase                           |     | SFP28 to SFP28              | 25.78 Gb/s     | up to 100m | 0°C to 70°C           |
| <b>25G DAC</b>                                     | 25GBase-T (passive)               |     | SFP28 to SFP28              | 25.78 Gb/s     | up to 5m   | 0°C to 70°            |
|  | 25GBase-T (active)                |     | SFP28 to SFP28              | 25.78 Gb/s     | up to 10m  | 0°C to 70°            |
| <b>10G AOC</b>                                     | 10GBase                           |     | SFP+ to SFP+                | 10.3 Gb/s      | up to 100m | 0°C to 70°C           |
| <b>10G DAC</b>                                     | 10GBase-T (passive)               |     | SFP+ to SFP+                | 10.3 Gb/s      | up to 7m   | 0°C to 70°C           |
|  | 10GBase-T (active)                |     | SFP+ to SFP+                | 10.3 Gb/s      | up to 10m  | 0°C to 70°C           |
| <b>Coming products</b><br>Stay Tuned for more info | 1.6TBase                          |     | OSFP to OSFP                | 1.6 Tb/s       |            | 0°C to 70°C           |

AOC cables are based on VCSEL Tx and PIN Rx technologies