

## SERIALIZERS/DESERIALIZERS

### PROGRAMMABLE MULTIPLEXERS WITH CMU

|                                                                                   | Function ↑                                                                                | Freq (min) ↑       | Freq (max) ↑        | Power ↑      | Package ↑            |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------|---------------------|--------------|----------------------|
|  | <a href="#">ASNT1011-PQA</a><br>Digital 16:1 Multiplexer                                  | Freq (min):DC      | Freq (max):16 Gbps  | Power:660 mW | Package:100-pin QFN  |
|  | <a href="#">ASNT1011A-KMA</a><br>Digital 16:1 Multiplexer                                 | Freq (min):DC      | Freq (max):17 Gbps  | Power:660 mW | Package:100-pin CQFP |
|  | <a href="#">ASNT1011A-PQA</a><br>Digital 16:1 Multiplexer                                 | Freq (min):DC      | Freq (max):17 Gbps  | Power:660 mW | Package:100-pin QFN  |
|  | <a href="#">ASNT1011-KMA</a><br>Digital Multiplexer / Serializer 16:1 or 8:1              | Freq (min):DC      | Freq (max):17 Gbps  | Power:660 mW | Package:100-pin CQFP |
|  | <a href="#">ASNT1017-PQA</a><br>Digital Multiplexer 16:1 with 12.0-14.3GHz Integrated CMU | Freq (min):12 GHz  | Freq (max):14.3 GHz | Power:500 mW | Package:100-pin QFN  |
|  | <a href="#">ASNT1016-PQA</a><br>Digital Multiplexer 16:1 with 9.8-12.5GHz Integrated CMU  | Freq (min):9.8 GHz | Freq (max):12.5 GHz | Power:660 mW | Package:100-pin QFN  |

### PROGRAMMABLE DEMULTIPLEXERS WITH CDR

|                                                                                     | Function ↑                                                                                          | Freq (min) ↑        | Freq (max) ↑        | Power ↑       | Package ↑            |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------|----------------------|
|  | <a href="#">ASNT2116-KMF</a><br>1:1 Reconfigurable Full Rate PAM4 CR                                | Freq (min):25 GHz   | Freq (max):31.5 GHz | Power:2250 mW | Package:64-pin CQFP  |
|  | <a href="#">ASNT2011-KMA</a><br>1:16 Digital Demultiplexer                                          | Freq (min):DC       | Freq (max):17 Gbps  | Power:730 mW  | Package:100-pin CQFP |
|  | <a href="#">ASNT2011-PQA</a><br>1:16 Digital Demultiplexer                                          | Freq (min):DC       | Freq (max):17 Gbps  | Power:730 mW  | Package:100-pin QFN  |
|  | <a href="#">ASNT2016-PQA</a><br>1:16 Digital Demultiplexer with Integrated Full Rate CDR            | Freq (min):11.3 GHz | Freq (max):12.5 GHz | Power:730 mW  | Package:100-pin QFN  |
|  | <a href="#">ASNT2017-PQA</a><br>1:16 Digital Demultiplexer with Integrated Full Rate CDR            | Freq (min):12.5 GHz | Freq (max):13.6 GHz | Power:890 mW  | Package:100-pin QFN  |
|  | <a href="#">ASNT2110-KMF</a><br>1:2 Reconfigurable Demultiplexer with Integrated Half Rate PAM4 CR  | Freq (min):25.5 GHz | Freq (max):32.5 GHz | Power:1600 mW | Package:64-pin CQFP  |
|  | <a href="#">ASNT2112-KMF</a><br>1:2 Reconfigurable Demultiplexer with Integrated Half Rate PAM4 CR  | Freq (min):22.2 GHz | Freq (max):28.2 GHz | Power:1600 mW | Package:64-pin CQFP  |
|  | <a href="#">ASNT2110C-KMF</a><br>1:2 Reconfigurable Demultiplexer with Integrated Half Rate PAM4 CR | Freq (min):23.9 GHz | Freq (max):34 GHz   | Power:1600 mW | Package:64-pin CQFP  |
|  | <a href="#">ASNT2110D-KMF</a><br>1:2 Reconfigurable Demultiplexer with Integrated Half Rate PAM4 CR | Freq (min):25.5 GHz | Freq (max):32.5 GHz | Power:1600 mW | Package:64-pin CQFP  |
|  | <a href="#">ASNT8160-KMF</a><br>Reconfigurable Half Rate CR                                         | Freq (min):25.5 GHz | Freq (max):32.5 GHz | Power:1600 mW | Package:64-pin CQFP  |

## SELECTORS & SWITCHES

|                                                                                                                                                                                                                                                                                                                                                                  | Function ↑                                                                        | Freq (min) ↑  | Freq (max) ↑       | Power ↑      | Package ↑           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|--------------------|--------------|---------------------|
|  PQC<br> KMC<br> KMC<br> PQC | <a href="#">ASNT5152-PQC</a><br>Broadband 1 of 2 High Isolation Selector / Switch | Freq (min):DC | Freq (max):17 GHz  | Power:315 mW | Package:24-pin QFN  |
|                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">ASNT1122-KMC</a><br>Broadband 1 of 4 Selector / Switch                | Freq (min):DC | Freq (max):32 Gbps | Power:300 mW | Package:24-pin CQFP |
|                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">ASNT5051-KMC</a><br>High Isolation Selector / Switch 1 of 2           | Freq (min):DC | Freq (max):17 GHz  | Power:287mW  | Package:24-pin CQFP |
|                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">ASNT5051-PQC</a><br>High Isolation Selector / Switch 1 of 2           | Freq (min):DC | Freq (max):17 GHz  | Power:287 mW | Package:24-pin QFN  |

## DIGITAL MULTIPLEXERS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Function ↑                                                                                                                                 | Freq (min) ↑  | Freq (max) ↑        | Power ↑       | Package ↑            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|---------------|----------------------|
|  KMA<br> Coming Soon<br> KMC<br> PQC<br> KMC<br> KMC<br> KMC<br> Module<br> KMM<br> PQB<br> KMM<br> KMM | <a href="#">ASNT1140-KMA</a><br>16:1 Programmable DDR Multiplexer / Serializer with Reset, Amplitude Control, and Clock Duty Cycle Control | Freq (min):DC | Freq (max):50 Gbps  | Power:1520 mW | Package:100-pin CQFP |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <a href="#">ASNT5650-BD</a><br>2:1 Broadband Digital Multiplexer / Selector                                                                | Freq (min):DC | Freq (max):112 Gbps | Power:810     | Package:Bare Die     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <a href="#">ASNT5050-KMC</a><br>2:1 Broadband Digital Multiplexer / Selector                                                               | Freq (min):DC | Freq (max):32 Gbps  | Power:450 mW  | Package:24-pin CQFP  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <a href="#">ASNT5050-PQC</a><br>2:1 Broadband Digital Multiplexer / Selector                                                               | Freq (min):DC | Freq (max):32 Gbps  | Power:450 mW  | Package:24-pin QFN   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <a href="#">ASNT5150-KMC</a><br>2:1 Broadband Digital Multiplexer / Selector                                                               | Freq (min):DC | Freq (max):50 Gbps  | Power:315     | Package:24-pin CQFP  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <a href="#">ASNT5151-KMC</a><br>2:1 Broadband Digital Multiplexer / Selector                                                               | Freq (min):DC | Freq (max):64 Gbps  | Power:415 mW  | Package:24-pin CQFP  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <a href="#">ASNT5153-KMC</a><br>2:1 Broadband Digital Multiplexer / Selector w/ Duty Cycle & Amplitude Control                             | Freq (min):DC | Freq (max):56 Gbps  | Power:500 mW  | Package:24-pin CQFP  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <a href="#">ASNT5153-MOD</a><br>2:1 Modular Broadband Digital Multiplexer / Selector                                                       | Freq (min):DC | Freq (max):64 Gbps  | Power:500 mW  | Package:Module       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <a href="#">ASNT1123-KMM</a><br>4:1 Broadband Digital DDR Multiplexer                                                                      | Freq (min):DC | Freq (max):64 Gbps  | Power:1150 mW | Package:44-pin CQFP  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <a href="#">ASNT1123-PQB</a><br>4:1 Broadband Digital DDR Multiplexer                                                                      | Freq (min):DC | Freq (max):32 Gbps  | Power:1150 mW | Package:40-pin QFN   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <a href="#">ASNT1124-KMM</a><br>4:1 Broadband Digital DDR Multiplexer w/ Duty Cycle & Amplitude Control                                    | Freq (min):DC | Freq (max):64 Gbps  | Power:1180 mW | Package:44-pin CQFP  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <a href="#">ASNT1121-KMM</a><br>4:1 Broadband Digital Multiplexer                                                                          | Freq (min):DC | Freq (max):50 Gbps  | Power:960 mW  | Package:44-pin CQFP  |

## DIGITAL DEMULTIPLEXERS

|                                                                                     | Function ↑                                                                                                                        | Freq (min) ↑        | Freq (max) ↑        | Power ↑       | Package ↑            |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------|----------------------|
|    | <a href="#"><u>ASNT5090-KMC</u></a><br>1:2 Broadband Digital Demultiplexer                                                        | Freq (min):DC       | Freq (max):48 Gbps  | Power:730 mW  | Package:24-pin CQFP  |
|    | <a href="#"><u>ASNT2140-KMA</u></a><br>1:16 Programmable DDR Demultiplexer / Deserializer with Reset and Clock Duty Cycle Control | Freq (min):DC       | Freq (max):32 Gbps  | Power:1350 mW | Package:100-pin CQFP |
|    | <a href="#"><u>ASNT5190-KMC</u></a><br>1:2 Broadband Digital Demultiplexer                                                        | Freq (min):DC       | Freq (max):60 Gbps  | Power:560 mW  | Package:24-pin CQFP  |
|    | <a href="#"><u>ASNT5190A-KMC</u></a><br>1:2 Broadband Digital Demultiplexer                                                       | Freq (min):DC       | Freq (max):64 Gbps  | Power:600 mW  | Package:24-pin CQFP  |
|    | <a href="#"><u>ASNT5190B-MOD</u></a><br>1:2 Broadband Digital Demultiplexer w/ Duty Cycle Control                                 | Freq (min):DC       | Freq (max):64 Gbps  | Power:600 mW  | Package:Module       |
|    | <a href="#"><u>ASNT5190B-KMC</u></a><br>1:2 Broadband Digital Demultiplexer w/ Duty Cycle Control                                 | Freq (min):DC       | Freq (max):64 Gbps  | Power:600 mW  | Package:24-pin CQFP  |
|    | <a href="#"><u>ASNT2123-PQP</u></a><br>1:4 Broadband Digital DDR Demultiplexer                                                    | Freq (min):DC       | Freq (max):32 Gbps  | Power:1160 mW | Package:36-pin QFN   |
|   | <a href="#"><u>ASNT2123-KMM</u></a><br>1:4 Broadband Digital DDR Demultiplexer                                                    | Freq (min):DC       | Freq (max):64 Gbps  | Power:1160 mW | Package:44-pin CQFP  |
|  | <a href="#"><u>ASNT2124-KMM</u></a><br>1:4 Broadband Digital DDR Demultiplexer w/ Duty Cycle Control                              | Freq (min):DC       | Freq (max):64 Gbps  | Power:1250 mW | Package:44-pin CQFP  |
|  | <a href="#"><u>ASNT2121-KMM</u></a><br>1:4 Broadband Digital Demultiplexer                                                        | Freq (min):DC       | Freq (max):50 Gbps  | Power:1350 mW | Package:44-pin CQFP  |
|  | <a href="#"><u>ASNT2032-MBL</u></a><br>12:24 LVDS-LVDS Demultiplexer                                                              | Freq (min):1.0 Mbps | Freq (max):3.6 Gbps | Power:924 mW  | Package:256-pin BGA  |
|  | <a href="#"><u>ASNT5190-PQC</u></a><br>Broadband Digital 1:2 Demultiplexer                                                        | Freq (min):DC       | Freq (max):36 Gbps  | Power:495 mW  | Package:24-pin QFN   |
|  | <a href="#"><u>ASNT5090-PQC</u></a><br>Broadband Digital 1:2 Demultiplexer                                                        | Freq (min):DC       | Freq (max):32 Gbps  | Power:730 mW  | Package:24-pin QFN   |
|  | <a href="#"><u>ASNT2031-MBL</u></a><br>Digital DMUX 24-to-48 with SSTL Interface                                                  | Freq (min):1 Mbps   | Freq (max):2 Mbps   | Power:2100 mW | Package:256-pin BGA  |