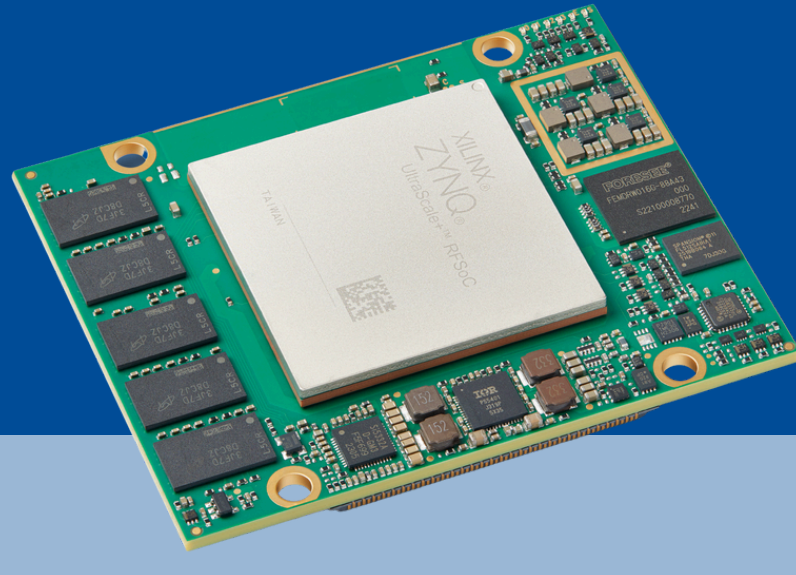
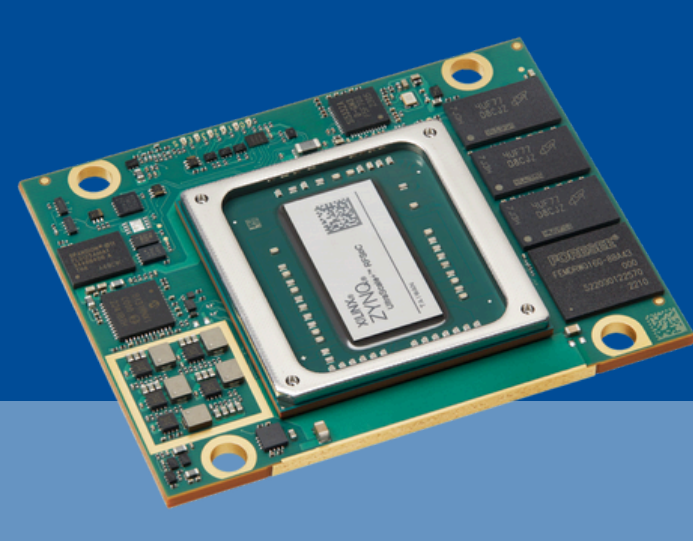




Find Your Best Fit: Andromeda RFSoc



XRU30 vs XRU50

Telecoms/5G radios - private & enterprise satellite comms, (compact designs)

Advanced phased array radar, wideband telecom (larger-scale RF applications)

APPLICATIONS

ZU67DR/ZU65DR/
ZU42DR

ZU48DR

MODELS

EAP with ZU67DR

FPGA CORE

AMD Zynq™ Ultrascale+™ RFSoc DFE

AMD Zynq™ Ultrascale+™ RFSoc

Gen 4

Gen 3

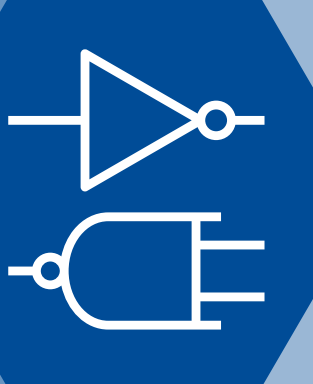


LOGIC ELEMENTS

489k

930k

almost double



RF-ADC

8 @ 2.95 GSPS +
2 @ 5.9 GSPS

8 @ 5 GSPS

Up to 10 channels



RF-DAC

8 @ 10 GSPS

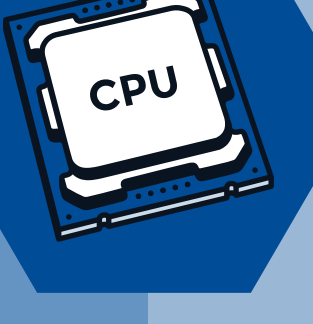
8 @ 9.85 GPSP



CPU CORES

4 x ARM® Cortex™-A53 |
2 x Cortex™-R5

4 x ARM® Cortex™-A53 |
2 x Cortex™-R5



not applicable

PCIE

2 x PCIe® Gen3 x16 |
PCIe® Gen2 x4

TOTAL USER I/Os

760 | 162

1'200 | 202



I/Os

104 HP (1-1.8V) |
36 HD (1.2-3.3V) |
22 MIO (1.8-3.3V)

156 HP (1-1.8V) |
24 HD (1.2-3.3V) |
22 MIO (1.8-3.3V)

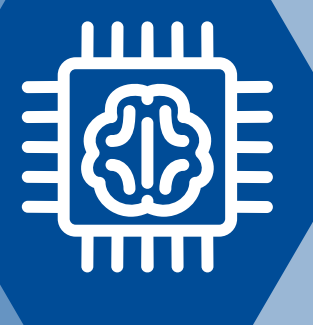


MEMORY

8 GB DDR4 @
2'400 Mbps (PS)

8 + 8 GB DDR4 @ 2'666
Mbps (PS+PL)

PS & PL Memory



TRANSCIEVERS

8 GTY @ 32 Gbps |
4 GTR @ 6Gbps

16 GTY @ 32 Gbps |
4 GTR @ 6Gbps

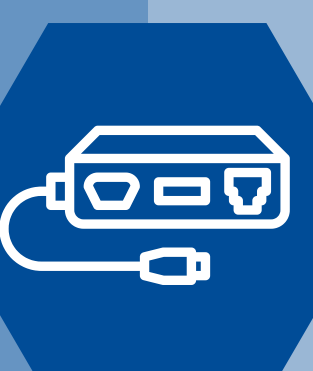


PERIPHERALS

16 GB eMMC Flash
1 x GbE PHY | USB PHY

16 GB eMMC Flash
2 x GbE PHY | USB PHY

Dual Ethernet
Connection



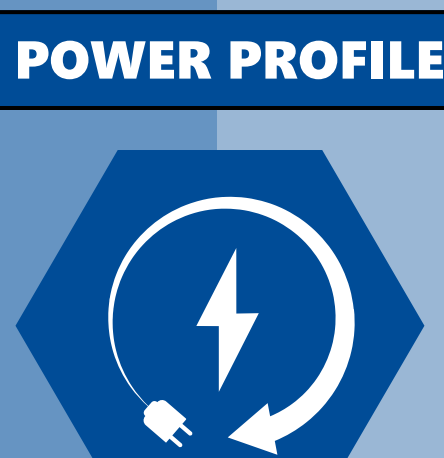
FORM FACTOR

68 × 52 mm
Andromeda M
very compact

80 × 64 mm
Andromeda L
small



Less memory,
but much smaller



POWER PROFILE

Lower power,
reduced thermal profile

Standard power
consumption
due to expanded RF and
logic resources

TARGET FOCUS

Cost-optimized,
energy-efficient, for
space- constrained
use cases



Higher performance
module for advanced
RF applications