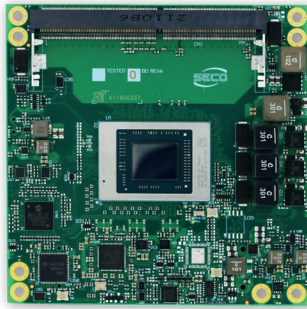




## OPHELIA

COM Express® 3.0 Type 6 Compact Module with AMD Ryzen™ Embedded V2000 SoCs

High performance AMD Ryzen™ core on COM Express® compact for graphics and compute demanding edge applications

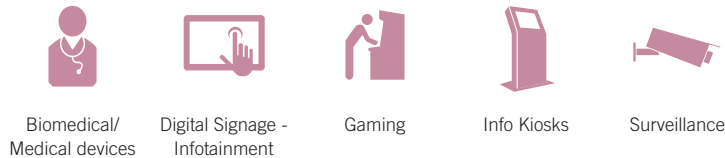


### HIGHLIGHTS

<b>CPU</b> Embedded Ryzen™ V-Series V2000 FP6 Platform with "Zen2" CPU and Radeon™ GPU Cores	<b>CONNECTIVITY</b> 1x GbE; 1x SuperSpeed USB 10Gbps; 3x SuperSpeed USB 5Gbps; 8x USB 2.0; 8x PCI-e x1 Gen3; PEG x8 Gen3
<b>GRAPHICS</b> Integrated AMD Radeon™ GPU with up to 7 Compute Units	<b>MEMORY</b> Two DDR4 SO-DIMM Slots supporting DDR4-3200 ECC and non-ECC memory, up to 64GB



### MAIN FIELDS OF APPLICATION



### FEATURES

<b>Processor</b> AMD Ryzen™ Embedded V2748 with AMD Radeon™ Graphics with 7 CU, Eight Core Dual Thread @ 2.9GHz (4.15 Boost), TDP 35-54W AMD Ryzen™ Embedded V2718 with AMD Radeon™ Graphics with 7 CU, Eight Core Dual Thread @ 1.7GHz (4.15 Boost), TDP 10-25W AMD Ryzen™ Embedded V2546 with AMD Radeon™ Graphics with 6 CU, Six Core Dual Thread @ 3GHz (3.95 Boost), TDP 35-54W AMD Ryzen™ Embedded V2516 with AMD Radeon™ Graphics with 6 CU, Six Core Dual Thread @ 2.1GHz (3.95 Boost), TDP 10-25W	<b>PCI-e</b> 8x PCI-e x1 Gen3 lanes PCI-express Graphics (PEG) x8 Gen3
<b>Memory</b> Two DDR4 SO-DIMM Slots supporting DDR4-3200, ECC and non-ECC memory, up to 64GB	<b>Audio</b> HD Audio interface
<b>Graphics</b> AMD Radeon™ Graphics GPU with up to 7 Compute Units Up to 4 independent displays supported Support DirectX 12, OpenGL 4.6, OpenCL 2.1 and Vulkan HW accelerated video decode VP9 (8 and 10 bits), H.264/AVC (8bits), H.265/HEVC (8 and 10 bits), JPEG HW accelerated video encode H.264/AVC (8bits), H.265/HEVC (8 and 10 bits), JPEG	<b>Serial Ports</b> 2x UARTs
<b>Video Interfaces</b> Up to 3 x Digital Display Interfaces (DDIs), supporting DVI, DP 1.4, HDMI 2.1 1 x eDP 1.3 or single/dual-channel 18-/24-bit LVDS interface	<b>Other Interfaces</b> SPI, I2C, SM Bus, thermal management, FAN management LPC bus Optional TPM 2.0 on-board LID#/SLEEP#/PWRBTN#, Watchdog 4x general purpose input (GPI), 4x general purpose input (GPI)
<b>Video Resolution</b> eDP, DP up to 4096x2160 @60Hz 10b with DSC 1.2 (HBR3) HDMI up to 4096x2160 @ 60Hz LVDS up to 1920x1200 @ 60Hz	<b>Power Supply</b> +12V <sub>DC</sub> ± 10%, +5V <sub>SB</sub> (optional), +3V <sub>VRTC</sub> (optional)
<b>Mass Storage</b> 2 x S-ATA Gen3 Channels	<b>Operating System</b> Microsoft® Windows 10 Linux Ubuntu
<b>Networking</b> Gigabit Ethernet interface with Intel® i21x GbE controller Optional M.2 1216 Wi-Fi 802.11ac and BTLE 5.0 on-board	<b>Operating Temperature*</b> 0°C to +60°C (commercial version) -40°C to +85°C (industrial version)
<b>USB</b> 1x SuperSpeed USB 10Gbps host port 3x SuperSpeed USB 5Gbps host ports 8x 2.0 host ports	<b>Dimensions</b> 95 x 95 mm (COM Express® Compact Form factor, Type 6 pinout)

\*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the packaged system to keep the heatspreader temperature in the range indicated.



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### BLOCK DIAGRAM

