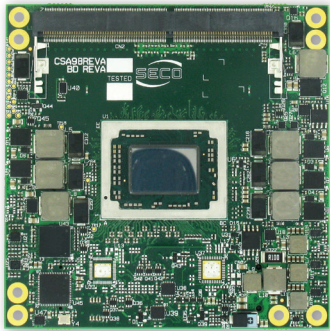




COMe-A98-CT6

COM Express® Compact Type 6 with the AMD Embedded 3rd generation R-Series SoC (formerly Merlin Falcon), G-Series SoC-I (formerly Brown Falcon) or G-Series SoC-J (formerly Prairie Falcon)

When scalable graphics performance makes the difference



HIGHLIGHTS

CPU AMD Embedded 3rd generation R-Series SoC or G-Series SoC-I	CONNECTIVITY 4x USB 3.0; 8x USB 2.0; 3x PCI-e x1 Gen3
GRAPHICS AMD Radeon 3rd -Generation Graphics Core Next (GCN)	MEMORY Two SO-DIMM slots supporting DDR4 ECC and non-ECC modules

Available in Industrial Temperature Range



MAIN FIELDS OF APPLICATION



Digital Signage - Infotainment



Gaming



Medical

FEATURES

Processor	AMD RX-421BD , Quad Core @ 2.1 GHz (3.4 GHz Max), cTDP 12-35W AMD RX-418GD , Quad Core @ 1.8 GHz (3.2 GHz Max), cTDP 12-35W AMD RX-216GD , Dual Core @ 1.6GHz (3.0 GHz Max), cTDP 12-15W AMD RX-416GD , Quad Core @ 1.6 GHz (2.4GHz Max), TDP 15W, Industrial Temperature range	Mass Storage	2 x S-ATA Gen3 Channels SD interface shared with GPIOs
	AMD GX-217GI , Dual Core @ 1.7GHz (2.0GHz Max), TDP 15W	Networking	Gigabit Ethernet interface Intel® I219-LM GbE Controller
Max Cores	AMD GX-224IJ , Dual Core @ 2.4GHz (2.8GHz Max), cTDP 10-15W AMD GX-215IJ , Dual Core @1.5GHz (2.0GHz Max), cTDP 6-10W	USB	4 x USB 3.0 Host ports 8 x USB 2.0 Host port
	4	PCI-e	3 x PCI-e x1 lanes PCI-express Graphics (PEG) x8 (R-Series SoCs) or x4 (G-Series SoC-I and SoC-J)
Memory	R-Series: Two SO-DIMM slots supporting DDR4 ECC / non-ECC modules up to 2133MHz G-Series SoC-I: Two SO-DIMM slots supporting DDR4 ECC / non-ECC modules up to 1600MHz G-Series SoC-J: One SO-DIMM slot supporting DDR4 non-ECC modules up to 2133MHz	Audio	HD Audio Interface
	AMD Radeon 3rd -Generation Graphics Core Next (GCN) AMD RX-421BD - Radeon™ R7 AMD RX-418GD, RX-416GD - Radeon™ R6 AMD-RX-216GD - Radeon™ R5 AMD GX-217GI - Radeon™ R6E AMD GX-224IJ - Radeon™ R4E AMD GX-215IJ - Radeon™ R2E Up to 3 independent displays supported (up to 2 with G-Series SoC-I and SoC-J) DirectX® 12 supported UVD 6 (4K H.265 and H.264 decode) and VCE 3.1 (4KH.264 encode) supported	Serial Ports	2 x HS UARTs
Graphics	Up to 3 independent displays supported (up to 2 with G-Series SoC-I and SoC-J) DirectX® 12 supported UVD 6 (4K H.265 and H.264 decode) and VCE 3.1 (4KH.264 encode) supported	Other Interfaces	SPI, I2C, SM Bus, LPC bus, FAN management LID#/SLEEP#/PWRBTN#, Watchdog 4x GPI, 4 x GPO (multiplexed with SD interface) Optional TPM 1.2 or 2.0 module onboard
	Video Interfaces	Power Supply	+12V _{DC} ± 10% and +5V _{SB} (optional)
Video Resolution	DDIs: up to 4K LVDS, VGA: up to 1920 x 1200 @ 60Hz	Operating System	Microsoft® Windows 7 Microsoft® Windows 10 Microsoft® Windows 10 IoT Linux
		Operating Temperature*	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial version)
		Dimensions	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 final system to keep the heatspreader temperature in the range indicated.

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BLOCK DIAGRAM

Version with VGA

Version with TPM

