

AVR-200R

Rugged SWaP PC System



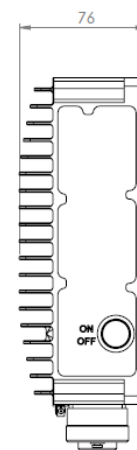
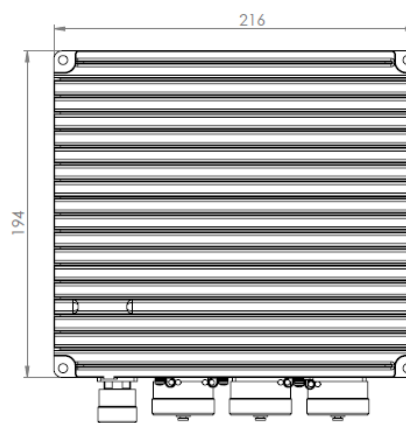
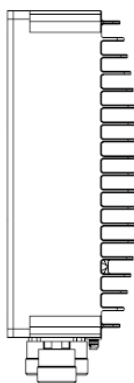
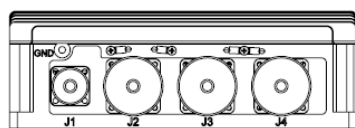
Features

- 11th Gen Intel® Core i5/ i7 U-series Processor
- Up to 64GB DDR4 memory, up to 1TB SSD
- 2x GbE, 2x USB2.0, 1x HDMI, 1x DVI
- 12-36VDC Input with EMI Pre filter
- MIL-STD-810, MIL-STD-461, MIL-STD-1275 Compliant

Small size weight and power rugged PC system includes 11th Gen i5/ i7 low power CPU with rich variety of I/O options. Up to 64GB DDR memory, up to 1TB SSD with extended temperature support and conformal coating all in a ruggedized small form factor embedded system.

Specification

Processor	CPU	Intel i7-1185GRE Quad-Core 15W 1.80GHz with Intel® Iris® Xe graphics, up to 96 graphics execution units	
	Memory	Up to 64GB DDR4 3200MHz	
	Storage	Up to 1TB SSD	
38999 I/O Connectors	Display	1xHDMI, 1xDVI	
	Ethernet	2 x 1000Base-T	
	USB 2.0	2	
Power Supply	12-36VDC Input (with integrated EMI Filters)		
Environment		Operating	Non-operating
	Temperature	-40 ~ 55° C	-40 ~ 85° C
	IP Rating	IP67	
	Environmental	MIL-STD-810	
	EMI/EMC	MIL-STD-461	
Physical Characteristics	Dimensions (W x H x D)	219 (incl connectors) x 216 x 76 mm	
	Weight	~2.4Kg	



Ordering Information

AVR-200R-01	SWaP Rugged i7 CPU, 16GB RAM, 512GB storage
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Connectors

Note that all connectors are Olive Drab Cadmium "W" type.

J1	D38999/20WA35PN	PWR (Filtered) 12-36VDC
J2	D38999/20WE35SN	2x USB2.0
J3	D38999/20WE35SA	1x Video HDMI (Mivtzai), 1x DVI (Training)
J4	D38999/20WE35SB	2x 1000Mbps Base-T Ethernet

MIL-STD-461 Compliance

Compliant to MIL-STD-461F as per Table V Ground Army category.

Requirement	CE102	Conducted emissions, power leads, 10 kHz to 10 MHz
	CS101	Conducted susceptibility, power leads, 30 Hz to 150 kHz
	CS114	Conducted susceptibility, bulk cable injection, 10 kHz to 200 MHz, curves 3&4
	CS115	Conducted susceptibility, bulk cable injection, impulse excitation
	CS116	Conducted susceptibility, damped sinusoidal transients, cables and power leads, 10 kHz to 100 MHz
	RE102	Radiated emissions, electric field, 2 MHz to 18 GHz
	RS103	Radiated susceptibility, electric field, 2 MHz to 18 GHz, 50V/m

MIL-STD-810 Compliance

Requirement	Low air pressure	Method 500.5, Procedure II Operation/Air Carriage to 4572m (15.000 ft)
	Low Temperature Operation	Method 502.5, Procedure II -20°C, 4 hours
	High Temperature Operation	Method 501.5, Procedure II +55°C, 4 hours
	Humidity	Method 507.5 85%-95% RH without condensation
	Vibration	Method 514.6, Category 24 5-500Hz, Vertical 7.7Grms, 40mins, 3 axes
	Shock	Method 516.6 20 Grms, 11ms, 3 axes
	Low Temperature Storage	Method 502.5
	High Temperature Storage	Method 501.5, Procedure 1
	Salt Fog	Method 509.7 Salt Spray (50±5) g/L