

# 7STARLAKE



## ROC280 SERIES

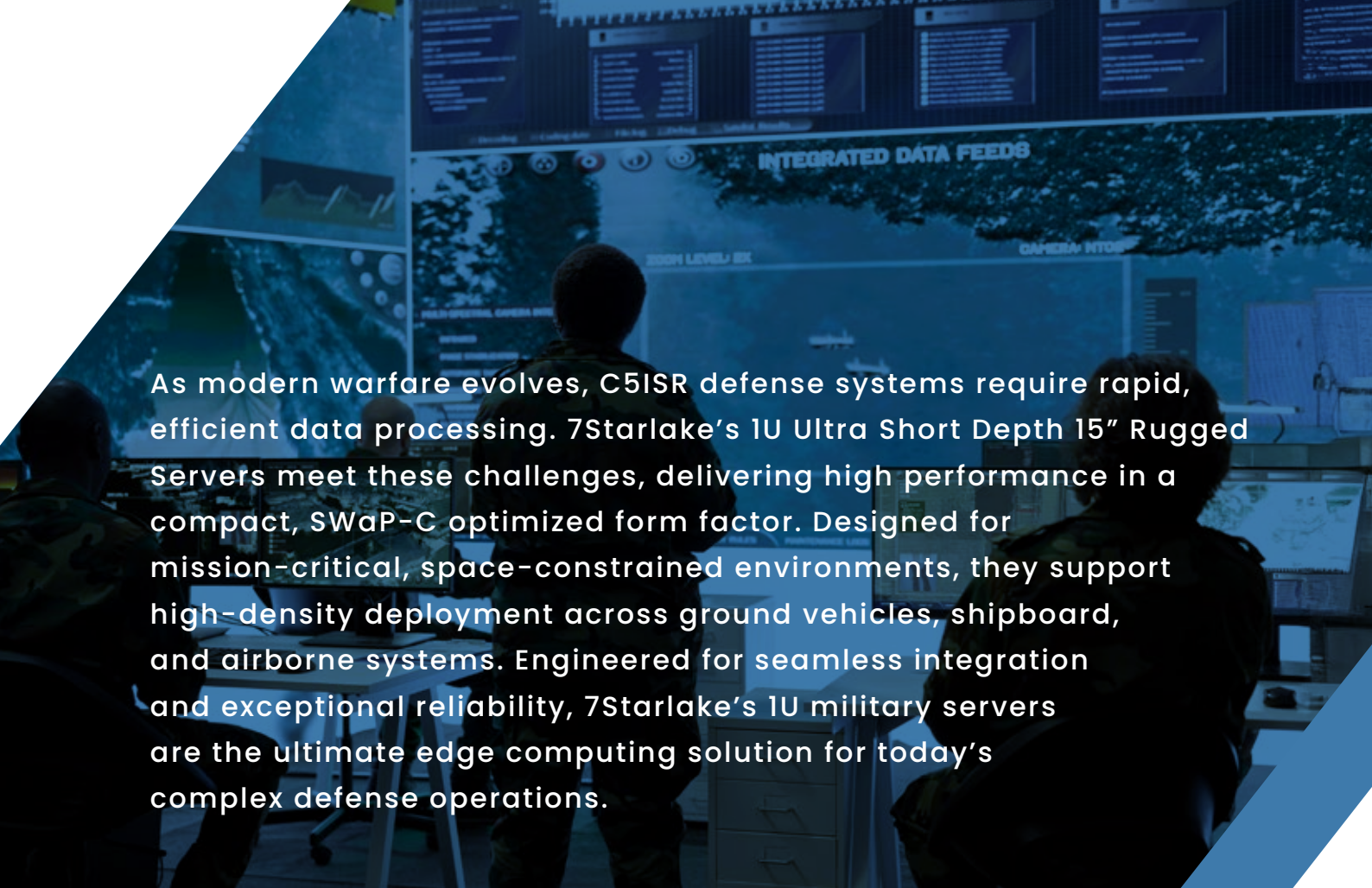
### 1U ULTRA SHORT DEPTH MILITARY FANLESS SERVERS



- Intel® 13/14<sup>th</sup> Core™ i7-13700TE
- Removable Rugged SSD
- Hardware Secure Erase
- Extended Temperature -20°C to 60°C
- MIL-STD-461/810
- TEMPEST LEVEL A
- FIPS 140-3 Security

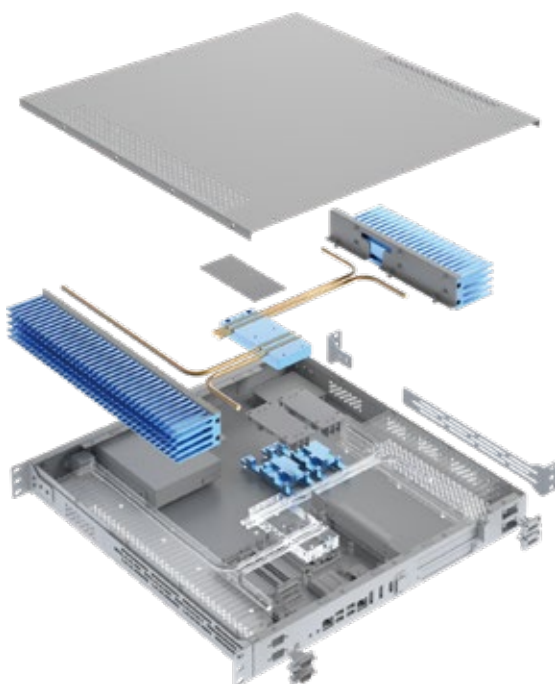


intel  
partner Gold  
IoT  
Solutions



As modern warfare evolves, C5ISR defense systems require rapid, efficient data processing. 7Starlake's 1U Ultra Short Depth 15" Rugged Servers meet these challenges, delivering high performance in a compact, SWaP-C optimized form factor. Designed for mission-critical, space-constrained environments, they support high-density deployment across ground vehicles, shipboard, and airborne systems. Engineered for seamless integration and exceptional reliability, 7Starlake's 1U military servers are the ultimate edge computing solution for today's complex defense operations.

## ***TEMPEST Level A for Emission Security***



In cybersecurity-focused projects, seamless integration of cyber diode solutions into proprietary systems is essential. 7Starlake's 1U Military ROC280 Servers, built on a robust architecture, support this integration while meeting TEMPEST SDIP-27 NATO Level A requirements. Leveraging advanced expertise in electromagnetic compatibility (EMC), the ROC280 servers deliver secure and reliable performance in harsh environments.





## MIL-STD-461 EMI Filter | 18V–36V Input



The ROC280 Ultra Short Depth Servers offer robust protection against voltage surges, spikes, transients, and electromagnetic interference. Engineered for high-stakes military and naval applications, they deliver exceptional durability and reliable performance in demanding environments.

*MIL-STD-461 CE102 basic curve, 10kHz – 30 MHz*

*MIL-STD-461 RE102-4, (1.5 MHz) – 30 MHz – 5 GHz*

*MIL-STD-461 RS103, 1.5 MHz – 5 GHz, 50 V/m equal for all frequencies*

## MIL-STD-810 | Extreme Environment Ready



The rugged design of the ROC280 ensures exceptional performance in the most challenging environments, withstanding unpredictable terrain, vibration, sudden shocks, and extreme temperatures, guaranteeing outstanding stability and reliability under harsh conditions.

*Method 501.5, Procedure I (Storage/High Temperature)*

*Method 501.5, Procedure II (Operation/High Temperature)*

*Method 502.5, Procedure I (Storage/Low Temperature)*

*Method 502.5, Procedure II (Operation/Low Temperature)*

*Method 503.5, Procedure I (Temperature shock)*

*Method 507.5, Procedure II (Temperature & Humidity)*

*Method 514.6, Vibration Category 24/Non-Operating (Category 20 & 24, Vibration)*

*Method 514.6, Vibration Category 20/Operating (Category 20 & 24, Vibration)*

*Method 516.6, Shock-Procedure V Non-Operating (Mechanical Shock)*

*Method 516.6, Shock-Procedure I Operating (Mechanical Shock)*



# Specifications

## ROC280-MG

## ROC280-MA



		Intel 14 <sup>th</sup> /13 <sup>th</sup> Raptor Lake-S/R	Intel 14 <sup>th</sup> /13 <sup>th</sup> Raptor Lake-S/R
CPU		i7-14701TE/ i9-13900TE	i7-14701TE/ i9-13900TE
Memory		DDR5- 64GB	DDR5- 64GB
Chipset		Q670E	Q670E
Security	TPM	TPM 2.0	TPM 2.0
Storage	SATA 3.0	Easy swap tray	Easy swap tray
	NVMe (M.2 2280)	SATA 3.0, PCIe3.0 x 4	SATA 3.0, PCIe3.0 x 4
PSU	Power input	18~36 DC	12V~36V Redundant DC
	D38999	1	1
Expansions	Hardware Secure Erase	1	N/A
	1 x M.2 2230 (E)	1	1
	1 x M.2 3042 (B)	1	1
I/O	LAN	3 x 2.5GbE RJ45	3 x 2.5GbE RJ45
	Display Port	2	2
	HDMI	2	2
	Audio	1 x MIC, 1 x Line-Out	1 x MIC, 1 x Line-Out
	USB 3.1	6 x USB 3.1	6 x USB 3.1
	USB 2.0	2 x USB 3.0	2 x USB 2.0
Thermal Type		Fanless Conduction Cooled	Rugged Air Cooled
Dimension(WxDxH)		430 x 380 x 44 mm	430 x 380 x 44 mm

This datasheet is for marketing purposes only and does not constitute a warranty. All specifications, dimensions, and data are subject to change without notice. For the latest specifications and updates, please contact your 7STARLAKE representative.



## Contact us



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## More Information



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