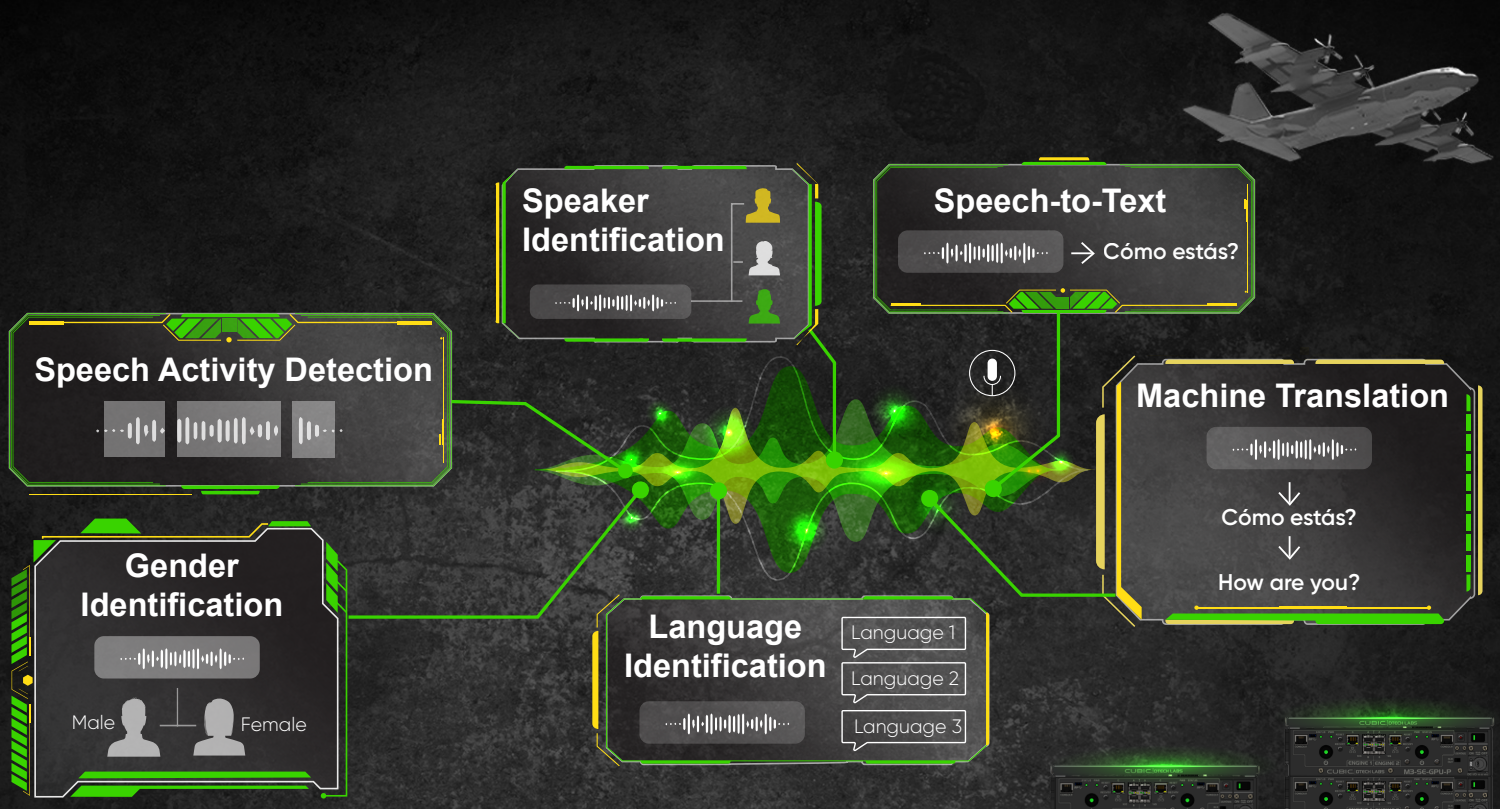
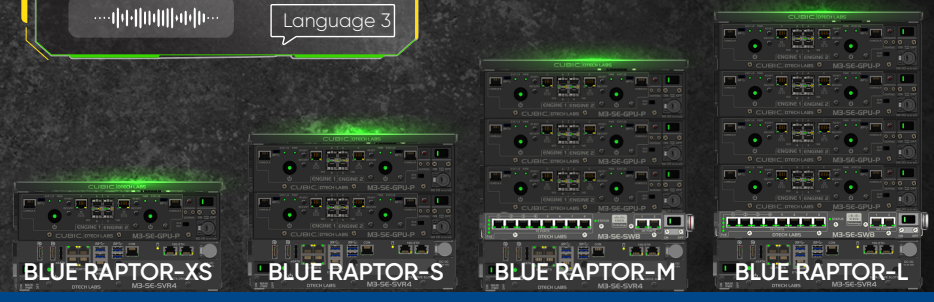
BLUE RAPTOR





Enabling AI/ML-Powered Applications at the Edge

BLUE RAPTOR helps provide forces operating at the edge with total situational awareness and cognitive dominance via state-of-the-art GOTS/COTS Human Language Technologies (HLT) such as Speech Activity Detection, Language Identification, Gender Identification, Speaker Identification, Speech-to-Text/Keyword Search and Machine Translation. Powered by Artificial Intelligence/Machine Learning (AI/ML), this capability is made possible by a COTS processing system developed with forces in mind. The small, lightweight, rugged and modular system is reliable and easy to use, offering low-power consumption in extreme, multi-domain environments.

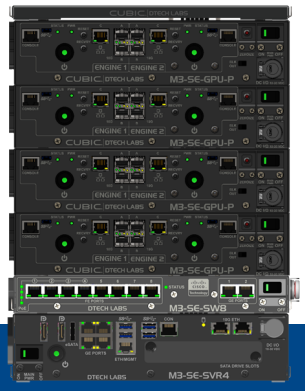
BLUE RAPTOR

Mission Impact

- Enables linguists/operators to fully leverage diverse, high-volume, fast-moving data
- Automates time consuming processing, exploitation and analysis tasks
- Optimizes utilization of limited resources (e.g., time, manpower, bandwidth, etc.)
- Maximizes probability of quickly finding critical information
- Decreases time to produce and disseminate actionable intelligence
- Increases time available for force operators to think and act

Key Points

- Developed in partnership with USG (including linguists/operators), SNC and Cubic I DTECH Labs
- Utilizes operationally proven Cubic I DTECH Labs M3-SE product line
- Class-leading performance in a low-power, compact, modular, multi-use, easily transportable solution
- Reliability in extreme environments; built to meet MIL-STD 810H and MIL-STD 461G requirements
- Includes 2-year extended hardware warranty
- Efforts to obtain Authorities to Operate (ATO) on classified networks are underway
- Utilizes state-of-the-art, operationally proven, untethered GOTS/COTS Human Language Technologies (HLT)
- Processes 1-240+ audio streams at the edge across 25+ languages in near-real-time
- AI/ML software architecture included (allows 3rd party AI/ML-powered apps to plug-and-play)
- HLTs integrated into lightweight, web-based user interfaces (e.g., Raptor-X, Rover, etc.)
- Language models updated and deployed regularly



BLUE RAPTOR-XS	BLUE RAPTOR-S	BLUE RAPTOR-M	BLUE RAPTOR-L
Size: 4.75" H x 10.25" W x 5.06" D	**Size:** 7.0" H x 10.25" W x 5.06" D	**Size:** 10.63" H x 10.25" W x 5.06" D	**Size:** 12.88" H x 10.25" W x 5.06" D
Weight: 6.85 lbs	**Weight:** 9.85 lbs	**Weight:** 15.05 lbs	**Weight:** 18.05 lbs
Power (Initial/ Nominal/Max): 52.6W/76.4W/185.1W	**Power (Initial/ Nominal/Max):** 84.5W/122.8W/306.8W	**Power (Initial/ Nominal/Max):** 107.1W/159.3W/416.9W	**Power (Initial/ Nominal/Max):** 129.8W/195.7W/527.1W
Compute: 2x CPU (16C ARM64) + 2x GPUs (1,024 Cuda Cores, 128 Tensor Cores)	**Compute:** 4x CPUs (32C ARM64) + 4x GPUs (2,048 Cuda Cores, 256 Tensor Cores)	**Compute:** 6x CPUs (48C ARM64) + 6x GPUs (3.072 Cuda Cores, 384 Tensor Cores)	**Compute:** 8x CPUs (64C ARM64) + 8x GPUs (4,096 Cuda Cores, 512 Tensor Cores)
AI Performance: 22 TFLOPS FP16, 44 TFLOPS of INT8	**AI Performance:** 44 TFLOPS FP16, 88 TFLOPS of INT8	**AI Performance:** 66 TFLOPS FP16, 132 TFLOPS of INT8	**AI Performance:** 88 TFLOPS FP16, 176 TFLOPS of INT8
Server: I7 Quad Core; 32GB RAM; 4TB storage (additional RAM/storage available)			

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