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

Maximizes probability of quickly finding critical information

Automates time consuming processing, exploitation and analysis tasks

Decreases time to produce and disseminate actionable intelligence

Optimizes utilization of limited resources (e.g., time, manpower, bandwidth, etc.)

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

Size: 4.75” H x 10.25” W x 5.06” D

Weight: 6.85 lbs

Power (Initial/ Nominal/Max): 52.6W/76.4W/185.1W

Compute: 2x CPUs (16C ARM64) + 2x GPUs (1,024 Cuda Cores, 128 Tensor Cores)

AI Performance: 22 TFLOPS FP16, 44 TFLOPS of INT8

Server: I7 Quad Core; 32GB RAM; 4TB storage (additional RAM/storage available)

BLUE RAPTOR-S

Size: 7.0” H x 10.25” W x 5.06” D

Weight: 9.85 lbs

Power (Initial/ Nominal/Max): 84.5W/122.8W/306.8W

Compute: 4x CPUs (32C ARM64) + 4x GPUs (2,048 Cuda Cores, 256 Tensor Cores)

AI Performance: 44 TFLOPS FP16, 88 TFLOPS of INT8

BLUE RAPTOR-M

Size: 10.63” H x 10.25” W x 5.06” D

Weight: 15.05 lbs

Power (Initial/ Nominal/Max): 107.1W/159.3W/416.9W

Compute: 6x CPUs (48C ARM64) + 6x GPUs (3,072 Cuda Cores, 384 Tensor Cores)

AI Performance: 66 TFLOPS FP16, 132 TFLOPS of INT8

BLUE RAPTOR-L

Size: 12.88” H x 10.25” W x 5.06” D

Weight: 18.05 lbs

Power (Initial/ Nominal/Max): 129.8W/195.7W/527.1W

Compute: 8x CPUs (64C ARM64) + 8x GPUs (4,096 Cuda Cores, 512 Tensor Cores)

AI Performance: 88 TFLOPS FP16, 176 TFLOPS of INT8

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.)

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.)

Decreases time to produce and disseminate actionable intelligence

Increases time available for force operators to think and act

Optimizes utilization of limited resources (e.g., time, manpower, bandwidth, etc.)

Increases time available for force operators to think and act

Maximizes probability of quickly finding critical information

Automates time consuming processing, exploitation and analysis tasks

Optimizes utilization of limited resources (e.g., time, manpower, bandwidth, etc.)

Increases time available for force operators to think and act

Optimizes utilization of limited resources (e.g., time, manpower, bandwidth, etc.)

Increases time available for force operators to think and act