

1804 - Multi Mode Exciter

Topic of Interest	Information we need from your organization
TechScout Title	Multi-mode Exciter (MME) for advanced radio frequency systems
Description	We are looking for innovative MME technologies for advanced radio frequency systems.
Focus Area(s)	RF
Keyword(s)	RF
Response Instructions & Date	<p>Responses will be accepted thru May 1, 2018</p> <p>General Dynamics Mission Systems EDGE Innovation Sourcing Network™ (ISN)) is seeking respondents to the following TechScout request. This TechScout request does not contain U.S. export controlled technical data or proprietary information, and is approved by General Dynamics Mission Systems for public release and is in the public domain.</p> <p>Send email response to techscout@gd-ms.com</p> <p>TechScout responses should not contain any export controlled technical data or proprietary information.</p> <p><u>Response should include the following information</u></p> <ul style="list-style-type: none"> • White Paper that answers all questions • Company Demographics • Are you a Non Traditional Defense Contractor? • Question to be responded to: <ul style="list-style-type: none"> ○ What is the technical performance and other parameters associated with your ADC? ○ What is the technical performance and other parameters associated with your DAC? ○ What are the performance characteristics of your technical solution? Do you have test data available validating your performance that can be provided with this response? ○ Does your solution require software/firmware development and runtime licenses or specific development environments? What software/firmware tools are available? ○ What is the processing architecture (GPP, FPGA, GPU)? ○ How flexible is the architecture to rapidly upgrade/change the ADC/DAC or processing infrastructure? What are the limitations? ○ Does your solution offer development environments for rapid development and porting of wideband detection, channelization, FFT, synthesis filters, direction finding, pulse processing and various other signal processing applications? Can you provide examples of the type of rapid development and porting that has been performed using your development environment? ○ What documentation is available? (ICD, development manuals, training manual, etc.) ○ What is the remote control and status capability and interface for your



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MME? Can individual MME components (e.g. DACs, ADCs, FPGAs, etc.) be "individually" controlled based on real-time need?

- o What are the recommended spares for the MME?
- o What is the Mean Time Between Failure (MTBF)? What is the Mean Time To Repair (MTTR)?

In your response, please identify whether you or your company are located outside the U.S. If located outside the U.S., please identify any home country export controls that will apply to your response. If located in the U.S., please identify whether your company employs non-U.S. manufacturing or design facilities, or foreign nationals in your response.

Any subsequent interaction between General Dynamics Mission Systems and a non-U.S. based TechScout respondent, or a U.S. based TechScout Respondent with non-U.S. manufacturing, design or foreign national employees must be reviewed and approved in advance for U.S. Export Compliance requirements by the General Dynamics Mission Systems Office of Import/Export Compliance prior to any such interaction.

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