MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information		
Scouting Number	2025-230	
Item to be Scouted	2070-7G Universal Time Base Module	
Days to be scouted	30	
Response Due By	08/09/2025	
Description	The 2070-7G Time Base Module provides programmable, real-time control for various cabinet operations. It's designed to synchronize and automate	
Section 2: Technical Information		
Type of supplier being sought	with consistent, daily, weekly, or seasonal scheduling. The module can store multiple programmable schedules or events (like turning on/off lights, enabling	
Reason	BARBA flash modes for school zones, etc.). The 2070-7G is designed to plug	
Describe the manufacturing processes (elaborate to provide as much detail as possible)	into the 2070 controller cabinet's backplane, following NEMA TS2 or Caltrans The statilidation of proposes serative of the forms of communication with Medule 2070 controller, ensuring cipal design of the forms of communication with Medule 2070 controller, ensuring cipal design of the statility of the can be handled smoothly. Battery-backed memory ensures the time and date settings are retained in case of a setting of the components are setting and statility and safety standards. Electronic Components includes RTC IC, microcontroller, memory, crystals, capacitors, resistors. PCB substrate FR4 or setting controller, memory, crystals, capacitors, resistors. PCB substrate FR4 or setting controller, memory, crystals, capacitors, resistors. PCB substrate FR4 or setting controller, memory, crystals, capacitors, resistors. PCB substrate FR4 or setting controller, memory, crystals, capacitors, resistors. PCB substrate FR4 or setting controller, memory, crystals, capacitors, resistors. PCB substrate FR4 or setting controller, memory, crystals, capacitors, resistors. PCB substrate FR4 or setting controller, memory, crystals, capacitors, resistors. PCB substrate FR4 or setting controller, memory, crystals, capacitors, resistors. PCB substrate FR4 or setting controller, memory, crystals, capacitors, resistors. PCB substrate FR4 or setting controller, memory, crystals, capacitors, resistors. PCB substrate FR4 or setting controller, memory, crystals, capacitors, resistors. PCB substrate FR4 or setting controller, memory crystals, capacitors, resistors. PCB substrate FR4 or setting controller, memory crystals, capacitors, resistors. PCB substrate FR4 or setting controller, memory crystals, capacitors, resistors. PCB substrate FR4 or setting controller, memory crystals, capacitors, resistors. PCB substrate FR4 or setting controller, memory crystals, capacitors, resistors. PCB substrate FR4 or setting controller, memory crystals, capacitors, resistors, resistors, resistors, resistors, resistors, resistors, resistors, resistors,	
Provide dimensions / size / tolerances / performance specifications for the item	Dimensions: 1.15" W, 9.5" H (±0.06 in), 7.0" D (±0.06 in) Operating Temperature (-40?°C to +85?°C); Power Supply (12 VDC nominalm draws ~50–100 mA); RTC Timekeeping Accuracy (±1–2 ppm, equivalent to ±1 minute/year drift with high-accuracy RTC IC); Time-based Events (Typically supports up to 64–128 programmable events, depending on firmware and memory size); Battery Backup (Coin-cell or supercapacitor, maintains RTC and event data for up to 5–10 years typical); LED Indicators (2–4 LEDs to display status: Power, Fault, Activity behavior defined by manufacturer firmware); RTC Backup Retention (Typically 5–10 years, depending on battery type and quality). Ship Weight ~ 0.5–0.8 lb. per 2070-7G Universal Time Base Module.	
List required materials needed to make the product, including materials of product components	The 2070-7G Universal Time Base Module is typically built from: PCB (FR4 fiberglass, copper clad), Microcontroller, Real-Time Clock IC (DS3231 or equivalent), Crystal Oscillator for RTC, Main Oscillator / Clock Crystal, Non-Volatile Memory (EEPROM or Flash), Battery / Supercapacitor, Voltage Regulator, Connectors / Edge Card Interface, LED Indicators, Tactile Buttons (for setup), Resistors, Capacitors, Inductors / Ferrites, Diodes, Transistors / MOSFETs, Headers / Jumpers, Silkscreen & Labeling.	
Are there applicable certification requirements?	No	
Are there applicable regulations?	No	
Are there any other stndards, requirements, etc.?	Yes	
Details	Caltrans TEES 2020	

Additional Technical Comments	
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Section 4: Business Information		
Estimated potential business volume	2-5 year contract. 150-250/year	
Estimated target price / unit cost information (if unavailable explain)	\$693 each	
When is it needed by?	4/29/2026	
Describe packaging requirements	Individually boxed (individual boxes within larger box if bulk order).	
Where will this item be shipped?	Sacramento, California	

Additional Comments	
Is there other information you would like to include?	Agency - Federal Highway Authority (FHWA) Contact - Andrew Bianchi, Project Delivery North Team Leader, Federal Highway Administration, California Division andrew.bianchi@dot.gov