

SA	Function	Instance	ECU Instance	Definition
0	Engine #1	0	0	First instance of a controller for the system's primary source of power
1	Engine #2	1	0	Second Instance of a controller for the system's primary source of power
2	Turbo charger	0	0	
3	Transmission #1	0	0	First instance of a controller for the system's transmission
4	Transmission #2	1	0	Second instance of a controller for the system's transmission
5	Shift Console - Primary	0	0	
6	Shift Console - Secondary	1	0	
7	Power Take-Off - (Rear or Primary)	0	0	First instance of a controller for a power take-off
8	Axle - Steering	0	0	
9	Axle - Drive #1	0	0	
10	Axle - Drive #2	1	0	Second instance of a controller for the system's drive axle
11	Brakes - System Controller	0	0	
12	Brakes - Steer axle	0	0	
13	Brakes - Drive axle #1	0	0	
14	Brakes - Drive axle #2	1	0	Second instance of a controller for the system's drive axle brakes
15	Retarder - Engine	0	0	Engine Compression Braking
16	Retarder - Driveline	0	0	
17	Cruise Control	0	0	Speed-based control
18	Fuel System	0	0	
19	Steering Control	0	0	
20	Suspension Control - Steer Axle	0	0	
21	Suspension Control - Drive Axle #1	0	0	
22	Suspension Control - Drive Axle #2	1	0	Second instance of a controller for the system's drive axle suspension
23	Instrument Cluster #1	0	0	Primary gauge display for a vehicle
24	Trip Recorder	0	0	
25	Passenger-Operator Climate Control #1	0	0	
26	Alternator/ Electrical Charging Control	0	0	A vehicle's primary electrical or alternator charging controller. This can be two different functions (alternator or electrical) that can share a preferred address.
27	Aerodynamic Control	0	0	
28	Vehicle Navigation	0	0	
29	Vehicle Security	0	0	
30	Electrical System	0	0	
31	Starter System	0	0	
32	Tractor-Trailer Bridge #1	0	0	Tractor mounted bridge (Gateway or Special NIU) leading to trailer(s)
33	Body Controller	0	0	Controls the body (not the chassis or cab) functions
34	Auxiliary Valve Control or Engine Air System Valve Control	0	0	Controller for the tractor mounted auxiliary valves (This should be used for auxiliary valve control or engine air system valve control. May be used with NAME Function 142, 143, 147, or 148 in Industry group 0, Vehicle system group 0.)
35	Hitch Control - Rear	0	0	Controller for the hitch on the rear of the Agriculture Tractor
36	Power Take Off Control (Front or Secondary)	1	0	Second instance of a controller for a power take-off
37	Off Vehicle Gateway	0	0	
38	Virtual Terminal (in cab)	0	0	
39	Management Computer #1	0	0	Manages vehicle systems, i.e. power train
40	Cab Display #1	0	0	First instance of a display other than instrument Cluster and virtual terminal
41	Retarder, Exhaust, Engine #1	0	0	The first engine exhaust retarder - may only be used for the NAME Function of 12, Function Instance 0, and an ecu instance of 0.
42	Headway Controller	0	0	Forward-looking collision warning, collision avoidance, speed controller, or speed matching
43	On-Board Diagnostic Unit	0	0	

SA	Function	Instance	ECU Instance	Definition
44	Retarder, Exhaust, Engine #2	1	0	The second PA available for use for the function, engine exhaust retarder. It may be used by the "second" engine's exhaust retarder (Function 12, Function Instance 1, ECU Instance 0), but in cases without a second engine it may also be used by the second exhaust retarder on the first engine or by the second ecu on the first exhaust retarder on the first engine (Function 12, Function Instance 0, ECU Instance 1).
45	Endurance Braking System	0	0	
46	Hydraulic Pump Controller	0	0	
47	Suspension - System Controller #1	0	0	The first Suspension - System Controller - may only be used for the NAME Function of 35, Function Instance 0, and an ecu instance of 0.
48	Pneumatic - System Controller	0	0	
49	Cab Controller - Primary	0	0	
50	Cab Controller - Secondary	1	0	Second instance of a controller for the system's cab
51	Tire Pressure Controller	0	0	
52	Ignition Control Module #1	0	0	The first Ignition Control Module - may only be used for the NAME Function of 39, Function Instance 0, and an ecu instance of 0.
53	Ignition Control Module #2	1	0	The second PA available for use for the function, Ignition Control Module. It may be used by the "second" engine's Ignition Control Module (Function 39, Function Instance 1, ECU Instance 0), but in cases without a second engine it may also be used by the second Ignition Control Module on the first engine or even by the second ecu on the first Ignition Control Module on the first engine (Function 39, Function Instance 0, ECU Instance 1) when there is only one Ignition Control Module Instance.
54	Seat Control #1	0	0	The first seat control module - may only be used for the NAME Function of 40, Function Instance 0, and an ecu instance of 0, and must be associated with the driver seat, when there are multiple seats with separate controls.
55	Lighting - Operator Controls	0	0	
56	Rear Axle Steering Controller #1	0	0	First instance of the rear axle controller system.
57	Water Pump Controller	0	0	
58	Passenger-Operator Climate Control #2	1	0	The second PA available for climate control - must be associated with the passenger climate control (NAME Function of 21, function instance 1, and an ecu instance of 0), when there are multiple climate control systems. If only one climate control system then may be used for the second ecu of the climate control (Function 21, Function Instance 0, ECU Instance of 1).
59	Transmission Display - Primary	0	0	Display to operate specifically in conjunction with the transmission control mounted in the normal drivers position
60	Transmission Display - Secondary	1	0	Secondary display to operate specifically in conjunction with the transmission control mounted remotely from the normal drivers position (May not be used for any ecu instances of the primary transmission display)
61	Exhaust Emission Controller	0	0	
62	Vehicle Dynamic Stability Controller	0	0	
63	Oil Sensor	0	0	
64	Suspension - System Controller #2	0	0	First instance of the second suspension control system, (i.e. it is single valued)
65	Information System Controller #1	0	0	Information management system, for the vehicle's application, such as transit passenger/fare monitoring, truck cargo management,
66	Ramp Control	0	0	Controller for ramps, lifts, or tailgates
67	Clutch/Converter Unit	0	0	Controller of either the clutch and/or hydraulic torque converter.
68	Auxiliary Heater #1	0	0	Can be air, water, or other heater type and be using engine heat, electrical, or fuel fired heating source.
69	Auxiliary Heater #2	1	0	Can be air, water, or other heater type and be using engine heat, electrical, or fuel fired heating source.
70	Engine Valve Controller	0	0	Electronic control used to control actuation of engine intake and/or exhaust valves
71	Chassis Controller #1	0	0	ECU for controlling the functions of the first chassis control system other than power train, body and cab functions, (I.e. this is the first instance.)

SA	Function	Instance	ECU Instance	Definition
72	Chassis Controller #2	1	0	ECU for controlling the functions of the second chassis control system other than power train, body and cab functions, (I.e. this is the second instance.)
73	Propulsion Battery Charger	0	0	A controller used to charge propulsion batteries in an electric vehicle from an off-board source of electrical energy
74	Communications, Cellular	0	0	Cellular communications unit
75	Communications, Satellite	0	0	Satellite communications unit
76	Communications, Radio	0	0	Radio communications unit
77	Operator Controls, Steering Column Unit	0	0	Device that gathers the operator inputs from switches/levers/etc located in and/or around the steering wheel/column
78	Fan Drive Controller	0	0	Controls the main cooling fan operation
79	Seat Control #2	0	1	The second PA available for seat controls - must be associated with the passenger seat (NAME Function of 40, Function Instance 1, and an ecu instance of 0), when there are multiple seats with separate controls. If only one seat then may be used for the second ecu of the seat control (Function 40, Function Instance 0, ECU Instance of 1).
80	Parking brake controller	0	0	Module controlling the parking brake
81	Aftertreatment #1 system gas intake	0	0	Used for exhaust gas measurement such NOx or oxygen, etc.
82	Aftertreatment #1 system gas outlet	0	0	Used for exhaust gas measurement such NOx or oxygen, etc.
83	Safety Restraint System	0	0	The safety restraint system can be for controlling activation of airbags, belt tensioners, roll over protection systems, etc.
84	Cab Display #2	1	0	The second Cab Display, this can used for supplemental displays such as retarder display, driver information display, etc.
85	Diesel Particulate Filter Controller	0	0	Used for Diesel Particulate Filter monitoring such as pressure drop, intake temperature, outlet temperature and soot loading, etc.
86	Aftertreatment #2 system gas intake	1	0	Used for exhaust gas measurement such as NOx or oxygen, etc. for exhaust bank #2.
87	Aftertreatment #2 system gas outlet	1	0	Used for exhaust gas measurement such as NOx or oxygen, etc. for exhaust bank #2.
88	Safety Restraint System #2	1	0	The second safety restraint system can be for controlling activation of airbags, belt tensioners, roll over protection systems, etc.
89	Atmospheric Sensor	0	0	Used for sensors which measure conditions such as air temperature, pressure and/or humidity
90	Powertrain Control Module	0	0	Electronic control module in charge of controlling and coordinating the operation of a hybrid propulsion system.
91	Power Systems Manager	0	0	This controller application will be used to manage one or more power systems. It might exist in an ECU with no other controller applications, or it might exist in an ECU with multiple controller applications
92-127	Reserved for future assignment by ISO & SAE			
128-247	Industry Group Specific			(see Industry Group 2 initial addresses)
248	File Server or Printer			On-board file and/or print server
249	Off Board Diagnostic/Service Tool #1	0	0	The address for the first off board diagnostic service tool - may only be used for the NAME Function of 129, Industry Group 0, Function Instance 0, and an ECU instance of 0.
250	Off Board Diagnostic/Service Tool #2	1	0	The second preferred address available for use for the function "Off Board Diagnostic-Service Tool". It should only be used by the "second" Off Board Diagnostic-Service Tool (Function 129, Industry Group 0, Function Instance 1, ECU Instance 0).
251	On-Board Data Logger	0	0	
252	Reserved for Experimental Use	0	0	
253	Reserved for OEM	0	0	
254	Null Address			The NULL address is only for use within J1939-81 Network Management communications to indicate the Controller Application (CA) has not yet successfully claimed an address. The NULL address is only permitted in the Source Address field of the J1939 message identifier.
255	GLOBAL (All-Any Node)			The Global address is only is permitted in the Destination Address field of a J1939 message to indicate the J1939 message is being sent to all Controller Applications (CAs). The Global address is never permitted in the Source Address field of a J1939 message.