

	ECM-S12-24	GCM-565-24	GCM-S12-24	ECM-555-48	ECM-563-48	GCM-563-48	HCM-543-48
Image of Controller							
Micro Processor	Freescale S9S12	Freescale MPC565	Freescale MC9S12DT128	Freescale MPC555	Freescale MPC563	Freescale MPC563	Freescale MPC563
Clock Frequency	64 MHz	56 MHz	24 MHz	40 MHz	56 MHz	56 MHz	40 MHz
Supply Voltage	8-16 VDC	6-32 VDC	8-16 VDC	8-16 VDC	8-16 VDC	8-32 VDC	8-32 VDC
Analog Inputs	10 - 8	6	6	15	13	18	16
Digital Inputs	-	-	4	-	-	-	-
Frequency Inputs	1	-	-	4	2	8	8
Knock Inputs	-	-	-	2	-	-	1
O2 Sensor Inputs	-	-	-	-	-	-	-
H-Bridges	0 - 2	-	-	-	2 - 1	1	-
Low Side Outputs	5 - 2	-	5	12	7	6	10 - 11
High Side Outputs	-	-	-	-	-	2	-
Injector Outputs	-	-	-	-	4	-	-
CAN 2.0B	1	2	2	2	2 - 1	3	2
Comms	-	1 RS-232	-	1 RS-485	-	-	-

	GCM-S12-62	ECM-S12X-70	ECM-5634-70	ECM-555-80	ECM-5554-112	ECM-564X-112-1101	GCM-5554-112	ECM-565-128
Image of Controller								
Micro Processor	Freescle MC9S12XD25	Freescle MC9S12XEP1	Dual Freescle	Freescle MPC555	Freescle MPC5554	Freescle MPC5642	Motorola MPC5554	Freescle MPC565
Clock Frequency	40 MHz	50 MHz	80 MHz	40 MHz	80 MHz	120 MHz	80 MHz	56 MHz
Supply Voltage	9-20 VDC	6,5-16 VDC	8-32 VDC	8-16 VDC	9-16 VDC	8-32 VDC	9-16 VDC	9-32 VDC
Analog Inputs	2	17	14	19	33	33	41	30 - 34
Digital Inputs	2	2	5	-	3	9	3	-
Frequency Inputs	2	1	2	6	2	4	2	8
Knock Inputs	-	-	2	2	2	2	2	-
O2 Sensor Inputs	-	1	1	4	4	6	4	2
H-Bridges	-	-	2	2	2	2	2	3
Low Side Outputs	9	9	9	6	14	19	14	10
High Side Outputs	9	-	-	-	-	-	-	-
Injector Outputs	-	4	6	12	8	8	8	12
CAN 2.0B	1	2	2	2	3	3	3	2
Comms	1 LIN	1 RS-485	-	1 RS-485	1 RS-485	1 RS-485	1 RS-485	1 RS-485