



OUTPUTS	
Ignition	12
Injector (peak and hold)	18
Digital Pulsed Outputs (DPO)	8
Power for Ignition Switch	1
Half Bridge Outputs (HBO)	4 (2 x H-Bridges/DBW throttles)
8A High Current Outputs (8A HCO)	12
25A High Current Outputs (25A HCO)	4
INPUTS	
Analog Voltage Inputs (AVI)	23
Differential Engine Position Inputs	2 (Trigger and Home)
Synchronised Pulsed Inputs (SPI)	10
Knock Inputs	2
Universal Wideband Controllers (NTK/LSU 4.9)	2
Ignition Switch Input	1
OTHER	
Inertial Measurement Sensor	Onboard, 6 Axis
4 Channel Oscilloscope	50kSa/s per channel, 2ms/Div limit,
	optional external trigger
5V Sensor Supply	2
8V Sensor Supply	1
Sensor Ground	2
Spare Ground pins for shields, sensors and low current C_{A}	AN devices 2

NEXUS R5 SPECS & FEATURES

FEATURES	
Drive-By-Wire Throttle Support	2
Flex Fuel	YES
Closed Loop O2 Control	Dual Bank
Knock Control	Dual
Variable Cam Control	Up to 4
Long Term Learning	Up to 4D
Data Logging	Laptop + Onboard
Anti-Lag Rotational Idle	YES
Launch Control	YES
Traction Control	YES
Tuning Table Resolution	32 x 32 x 8 4D
Engine Protection	Multi Level
CAN Networks	3
Nitrous Control Stage	6
Boost Control	4D Closed Loop
CO2 Control	YES
Intake Air Bleed Control	YES
Flat Shift Control	Advanced
Shock Travel & Ride Height	YES
Trans Brake	YES
Race Timer	YES
Advanced Torque Management	YES
On-board Wideband	2 Channel LSU 4.9 / NTK

CAN Bus Networks 1000, 500 or 250 kbit/s 3	
High Speed USB 2.0 (USB-C interface) 480 Mbit/s connection 1	
ing, settings and firmware upgrade available	
log extraction. Hardware lockout for security	
Onboard	
512MB	
1kHz	
300	
257 x 132 x 51 mm (10.1 x 5.2 x 2 in)	
257 x 163 x 61 mm (10.1 x 6.4 x 2.4 in)	
1.50 kg (3.307 lb)	
-40 to 85°C (-40 to 185°F)	
ECU: -40 to 125°C (-40 to 255°F)	
PDM: -40 to 150°C (-40 to 300°F)	
8 to 22V	
8 to 22V 32VDC 200A	

Static current draw from USB port

400mA