Nissan GT-R – fact sheet
Covers all Nissan GT-R models worldwide, ECM and TCM from 2008 to present day, including NISMO editions

Main Features

- 2019 New ECU with 2mb ROM supported for world market
- High resolution ignition, knock maps and fuel map
- Rescaled for high load
- Real ignition timing values
- Per-cylinder knock control
- Full fuel injector control
- 3D Injector characterisation
- Fuel consumption meter calibration
- Fuel pump control
- Fully defined VVT
- Throttle and torque control
- Limiters and sensor scaling

Supported Models: All Nissan GT-R models worldwide from 2008 to present day, including NISMO editions

ECU Connect

Bluetooth Connectivity For Your Mobile Device
ECU Connect is a free to download app for iOS and Android devices that works with EcuTek’s new Bluetooth Vehicle Interface to offer you advanced features and functionality such as...

- Data-logging: Display and record up to 330 different parameters up to 100Hz
- Dashboards: Add gauges, bar graphs and digital values to create custom displays, change colours and set alarm thresholds
- DTCs and ECU Reset: Read and clear diagnostic trouble codes and any ECU learned values
- Launch Control: Adjust the Launch RPM and boost pressure using your device
- Boost Controller: Adjust the max boost for each mode
- Map Switching: Switch instantly between four modes
- Performance Analyzer: Share the results of your performance testing with friends
- Valet Mode: Reduce your car’s power output when it's in someone else's hands
- Custom Inputs: See the back page
- Special Tools: Make TCM adjustments; see back page for details of the many functions!

ACHIEVEMENTS

With tuners achieving more than 1,600whp and countless eight-second GT-Rs roaming the drag strips, RaceROM shows you precisely what is possible. Take a look at some our tuners’ quarter-mile performance results...

Dana 8.14 @ 175.14mph
Rob 8.59 @ 162.71mph
Eli 8.74 @ 160.2mph
Alan 8.89 @ 164mph
Manny 8.93 @ 161mph
Steve 8.94 @ 159.3mph

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### RaceROM Special Features

**Four-way Map Switching** Select using cruise control switchgear or ECU Connect. The rev counter and/or coolant gauge will indicate the current Map Switch mode.

**Boost Controller** Adjust the maximum target boost using the cruise control switchgear or ECU Connect, the boost gauge will show the current maximum boost target.

**Launch Control** Adjust the launch RPM live using the cruise control toggle on the steering wheel or ECU Connect.

**Closed Loop, Slip Based Traction Control** Slip based traction control similar to a stand alone ECU with comprehensive selection of maps to calibrate targets and torque reductions. Additional controls can be added via Custom Maps and adjusted via ECU Connect.

**Boost Off The Line with Rolling Cylinder Cut** Uses anti-lag to create positive boost pressure ready for launch, adjust the boost target using ECU Connect. The dynamically adjusted ignition and progressive rolling cylinder cut safely reduces engine torque and exhaust gas temperature.

**Rolling Launch** Similar to Boost Off The Line, this feature safely builds positive boost ready for launch while cruising at a steady speed. It is perfect for Roll Racing with little risk of transmission damage. Specify a pre-launch boost for each Map Switch mode and configure the feature to activate only when Race Mode suspension is ON, VDC is off.

**Speed Density** MAP sensor-based tuning with a hybrid SD option offering a transition from MAF to SD (or vice versa) giving you the best of both worlds. A must for high-power models.

**Boost Control** Fully featured yet easy to tune, RaceROM GT-R offers full closed loop Pl boost control with gear and rpm dependant boost targets fully integrated with our FlexFuel strategy offering independent targets and boost limits for gasoline and ethanol. With high and low altitude base wastegate duty maps, atmospheric pressure compensation for boost target, wastegate duty and feedback activation, excellent boost control is possible no matter what your turbo installation or operating conditions.

**12-Injector Support** Run 12 injectors with the factory ECU using EcuTek! Using an aftermarket injector driver box combined with a plug and play harness, RaceROM offers in-depth injector and fuel pump control for the phasing of the additional set of injectors. You can use different-size primary and secondary injectors to retain a perfect idle and drivability, plus high-power fuel flow when you need it. 3,500cc+ total injection is now here!

**Injector Low Pulse Width Compensation** Use comprehensive manufacturer data to take low load fuel tuning to another level! Calibrate injection time multiplier against voltage and input pulse width to give even finer control of big injectors at low opening times.

**E85 and Flex-Fuel** Create an accurate ethanol calibration by importing a Flex-Fuel sensor signal into the ECU. Display the ethanol content ratio on the coolant temperature gauge or using ECU Connect, with dedicated maps for ignition, AFR and boost targets that blend against the current ethanol content.

**3D Injector Characterisation** Fully define injector latency (lag time) against fuel pressure and battery voltage, add corrections for low injector pulse width to ease tuning and improve light load running on large injectors.

**Valet Mode** A discreet, comprehensive and powerful feature to retain control of your vehicle when it is away from your care. Configurable maps include torque, speed and distance settings.

**Knock Warning** A flashing check engine lamp (CEL) if there’s a knock event.

**Clutch Slip Protection** No more burning out expensive clutch packs! Let RaceROM manage the ignition and torque during a clutch slip event.

**Safety Trips** Provides a powerful and configurable limp mode feature with timers and activation thresholds for conditions such as knock, lean AFR plus temperature and pressure issues for oil, fuel and coolant.

**Custom Sensor Inputs** Dedicated configuration of additional sensors for fuel pressure, coolant pressure and ethanol content with input voltage range checking to trigger a default value and flash the CEL if a problem is detected.

**6x ECU Inputs** Import 0-5V signals through the rear O2, MAF, CPC or Boost sensor.

**4x ECU Outputs** Use the CPC valve for duty control and switch four different solenoid valves ON and OFF.

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For a full list of products and features, pricing details and video demonstrations visit www.ecutek.com
Custom Maps

16 powerful maps* that can be calibrated as you wish. Define map inputs and outputs, activation thresholds and timer delays. Use the maps as an addition, subtraction or multiplication; set the map as a minimum or a maximum; you can even use the map output as an integral addition. In short, with ProECU Nissan GT-R you can create almost any map you want!

Gauge Hijack
Drive the coolant temperature gauge to show live data parameters such as AFR/Lambda, fuel trims or the ethanol content ratio. It can either be displayed permanently or only during map switching.

Custom Logging Parameters
RaceROM adds more than 130 new ECM logging parameters that are crucial for the accurate tuning of injector angle, throttle delta, launch RPM error, all four wheel-speed sensors, torque split, G-sensor, oil pressure, steering angle, per-cylinder knock, cylinder cut, Flex-Fuel and boost control parameters.

*older ROMs may have less custom maps available

Comprehensive access is provided to the TCM with clearly defined and labelled maps. Features include:
- RaceROM clutch pressure target limit. Lift the factory limit of 16 bar to 20+ bar to limit slip and protect your clutches in cars running 1,000+ bhp.
- Clutch solenoid current limits. Working in conjunction with clutch pressure adjustment, this allows you to raise the current to the solenoid above factory limits to deliver a higher target clutch pressure.
- Adjust vehicle-speed shift points
- Set maximum allowed RPM limits for gearshifts
- Speed limiters and gear ratios
- Clutch temperature thresholds
- Sensor limits and disable DTCs
- Enable launch control in manual, in automatic, with VDC ON or OFF
- High-speed data logging for more than 130 different TCM parameters
- Log the ECM and TCM simultaneously using ECU Connect

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**Custom Inputs**

*Giving the tuner the ability to create up to five new inputs that can be controlled using ECU Connect!*

Setup as a slider, numerical value or a switch, use custom maps to control the input and see the changes live using ECU Connect dashboard.

Adjust traction or boost control; make live changes to the ignition or fuelling, adjust the power output, engage solenoids and relays

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**GT-R Special Tools**

**ECM Tools** These include ECM Reset, Idle Learning and Cylinder Power Balance*

**TCM Tools** These include Clutch Auto-learning and Clutch Touch-Point and Pressure adjustments, Read/Clear Clutch Protection & Warning History

**Tyre Pressure Monitor System (TPMS)** Function for TPMS registration sequence (requires a third-party TPMS tool)

**Brakes & Steering Tools** include ABS sensor calibration and G-sensor reset, brake pressure sensor and valve initialisation, plus steering wheel alignment

* Power balance, brake and steering functions are not available with ECU Connect

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**Additional Features**

**ECU Connect Dashboards** - Add gauges, bar graphs and digital values to create custom displays, change colours and set alarm thresholds

**Coloured Map Tracing** lets you easily find AFR or knock events on maps

**ROM Compare** highlights the differences between two ROM files

**FastFlash High-speed Programming** with progress displayed on the rev-counter

**ECU Recovery & Data Protection** these are your built-in reassurances

**Read and Clear DTCs** on all vehicle ECU modules, not just the ECM

**EcuTek Update** regular updates and new features downloadable for FREE

**ProECU Programming Kit Support** for worldwide E-Tuning

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