

ABSTRACT

VEHICLE INTEGRATED CONTROL CIRCUIT

The present invention relates to a vehicle control system **(10)** comprising a plurality of electronic control circuits (ECUs) **(n)** performing at least one activity and monitoring at least one function of a vehicle, each ECU **1, 2 (100), (200)** of said plurality of electronic control circuits (ECUs) **(n)** includes a microcontroller **1, 2 (300), (301)**, each microcontroller **1,2 (300), (301)** includes a different predetermined source code module **(101a), (101b)** and said different predetermined source code module **(101a), (101b)** executing a control algorithm.

10 In the present invention, the vehicle control system **(10)** further comprises at least one integrated control circuit **(500)** controlling at least one function of the vehicle and said at least one integrated control circuit **(500)** includes at least two ECUs **(100), (200)** of said plurality of electronic control circuits (ECUs) **(n)** and a master microcontroller architecture **(400)** integrally installed therein.

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[Figure. 3]