



Rugged CAN Interface Module

For on-board automatic control

Systems – NIM 355

StackPC-PCI Interface Module [NIM355](#) - is designed for use in on-board automatic control systems of the ground vehicles and is intended for expansion of basic functions of CPU modules ([EX: CPB909](#)), developed on the basis of StackPC, PCI/104 or PCI/104-Express standards.

The module ensures integration of computers within CAN network, with a possibility of additional connection of up to 4-x digital input lines and 4-x digital output lines. Due to the availability of 4-x isolated CAN 2.0a/b channels, the module is considered to be a good alternative and can substantially save costs and reduce size of the devices, built on the basis of [NIM351](#) modules. From the standpoint of application software, runtime libraries of CAN-adapters for NIM355 are fully compatible with the similar library of [NIM351](#).

[NIM355](#) can be supplied with drivers for the following operating systems: Windows XPe, Linux 2.6.x, QNX 6.5.

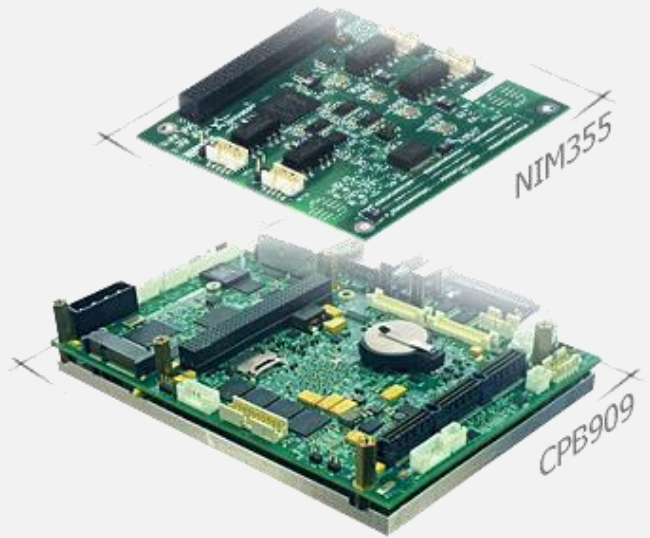
The module is implemented in accordance with the [StackPC-PCI](#) standard. Data exchange with CPU Module is carried out via PCI bus (PC/104+ connector). StackPC connector is a passing one (only power supply circuits are activated).

Main features of the module

- System bus PCI 32-bit / 33MHz
- 4x channel CAN:
- 4x channels of digital input, 24V
- 4x channels of digital output, up to 48V
- Operating temperature range: - 40 ... + 85°C
- Software compatibility: Windows XPe, Linux 2.6.x, QNX 6.5

Module is implemented in two versions:

- NIM355-01 – version with an entire range of interfaces and components (4xCAN, 4xDI and 4xDO);
- NIM355-02 – version without StackPC connector (providing possibility of using the module in PCI-104 and PC/104-Plus(PCI) stacks), without 4xDI and 4xDO interfaces.



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