

CARMEN® NEURAL NETWORK CONTROLLERS

FOR CARMEN® BASED SYSTEMS

CARMEN® GO • CARMEN® FREEFLOW • CARMEN® 5K/8K/11K • CARMEN® ACCR • CARMEN® ADR • CARMEN® UIC • CARMEN® DOT

SOFTWARE COMPONENTS

The Neural Network Controllers contain a special code that tightly cooperates with the ANPR engine during the automatic number plate recognition process. All Neural Network Controllers run a special neural network code of the license plate recognition process. The main parts of the license plate recognition run on the CPU of the PC, but some functions of the code are outsourced to the microcontroller. That requires the presence of the Neural Network Controller during image processing.

CARMEN® FXMC USB NEURAL NETWORK CONTROLLER

The FXMC USB Neural Network Controller (NNC) is a non-transparent neural network controller that connects to the USB port of a computer.

When using this device, there is no need for free PCI slots or PC104+ layers, only operating system USB support.

Interface	USB 2.0
Processor	50 MHz
Supported operating systems	Windows or Linux
System requirements	Free USB 2.0 port
Power consumption	Approx. 85 mA
Size	68.0 mm × 19.0 mm × 9.0 mm



CARMEN® FXMC USB NEURAL NETWORK CONTROLLER (NEUTRAL DESIGN)

This is a neutral design version of the USB NNC – for OEM use. Its functionality is the same as the ARH branded one but with a slightly different size.

Interface	USB 2.0
Processor	50 MHz
Supported operating systems	Windows or Linux
System requirements	Free USB 2.0 port
Power consumption	Approx. 85 mA
Size	62.0 mm × 20.0 mm × 10.0 mm

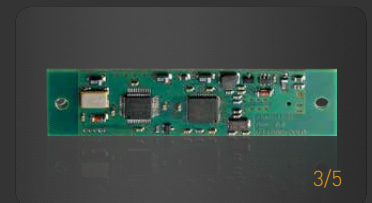


CARMEN® FXMC INTERNAL USB NEURAL NETWORK CONTROLLER

This NNC is an internal device that directly connects to the motherboard through the 4-pin vertical USB connector (Samtec SSM-102).

Since installed internally, it is ideal for system integrators, as the hardware key is protected from theft or physical damage.

Interface	USB 2.0 (connector: 2-row 4-pin socket)
Processor	50 MHz
Supported operating systems	Windows or Linux
System requirements	Free USB 2.0 port
Power consumption	Approx. 85 mA
Size	75.0 mm × 20.0 mm × 10.5 mm

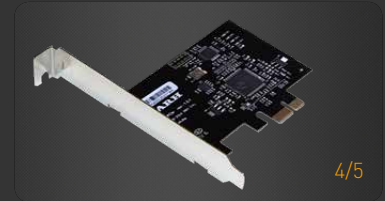


CARMEN® NEURAL NETWORK CONTROLLERS

CARMEN® FXMC PCIE NEURAL NETWORK CONTROLLER

The CARMEN® FXMC PCIe Neural Network Controller has a PCIe x1 interface to be inserted into a free PCIe slot of a PC. The high speed PCIe interface provides exceptionally fast response time.

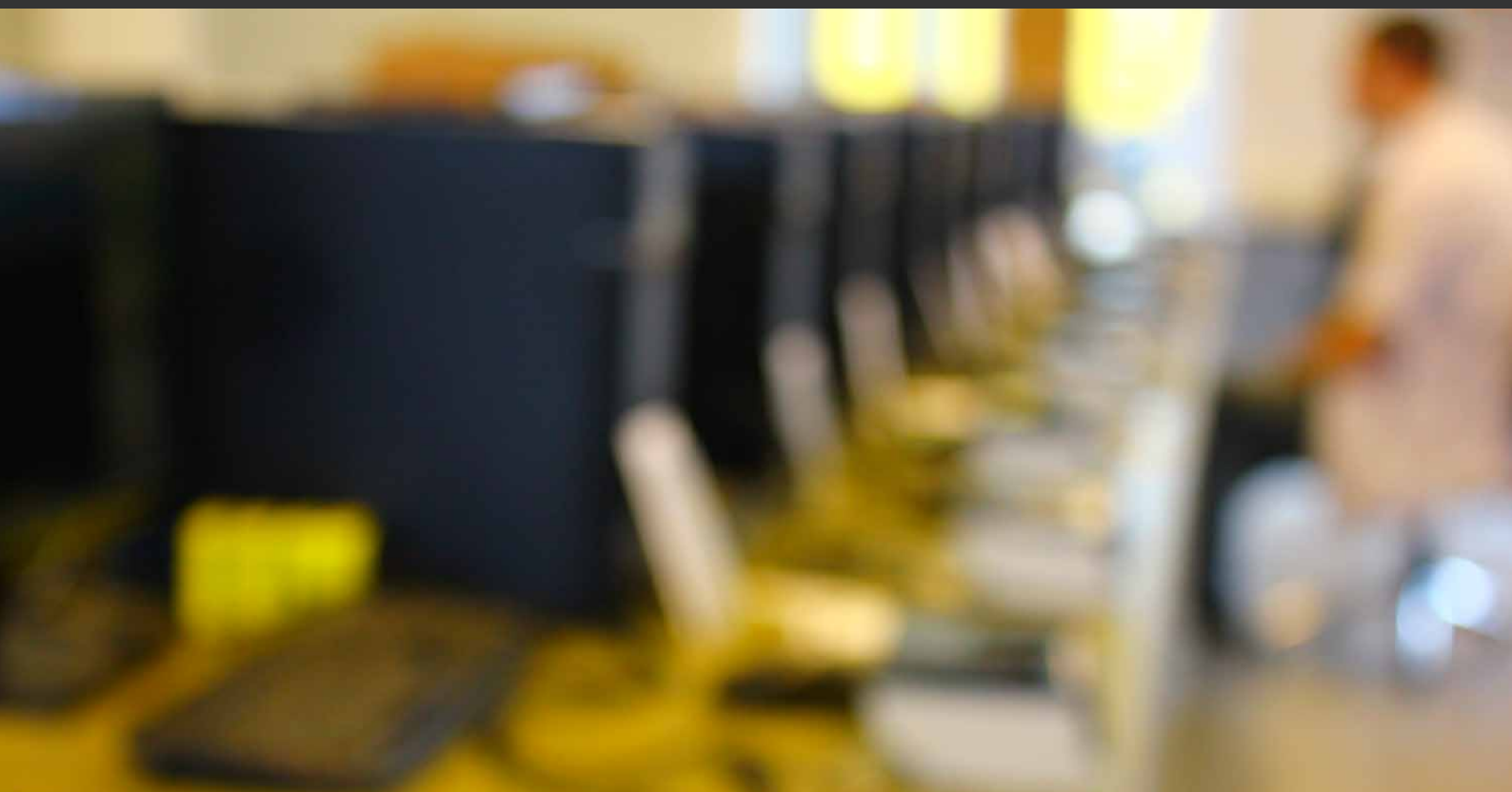
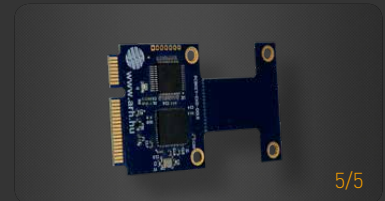
Interface	PCIe X1
Supported operating systems	Windows or Linux
System requirements	Free PCIe slot x1 (or higher)
Power consumption	Approx. 300 mA
Size	87.0 mm × 6.07 mm



CARMEN® FXMC MINI-PCIE NEURAL NETWORK CONTROLLER (NEW)

In functionality, the mini-PCIE NNC is on par with the USB version. The only difference is its connecting interface. This NNC connects to the mini PCI Express slot, using its USB pins.

Interface	USB 2.0
Processor	50MHz
Supported operating systems	Windows or Linux
System requirements	Free PCI Express Mini Card Slot (Full or Half size)
Power consumption	Approx. 85 mA
Size	50.95 mm × 30.00 mm (Full-Mini Card format)
	26.80 mm × 30.00 mm (Half-Mini Card format)



..... Technical specifications are subject to change without prior notice. This document does not constitute an offer.



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