

## CARMEN® NNC – Neural Network Controllers

### Carmen® FXMC USB

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 PCI04+ 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 (or above) port
Power consumption	Approx. 85 mA
Size	68 mm × 19 mm × 9 mm



### Carmen® FXMC USB

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 mm × 20 mm × 10 mm

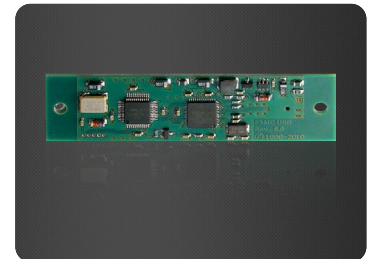


### Carmen® FXMC INTERNAL USB

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.

This NNC key only works if the cable length does not exceed 50 cm.

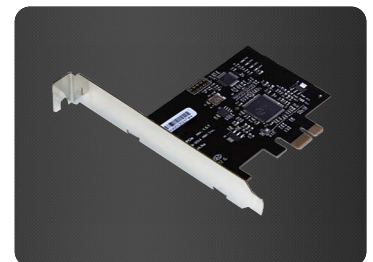
Interface	USB 2.0 (connector: 2-row 4-pin socket)
Processor	50 MHz
Supported operating systems	Windows or Linux
System requirements	Free USB 2.0 port headers
Power consumption	Approx. 85 mA
Size	75mm × 20 mm × 10.5 mm



### Carmen® FXMC PCIE

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.

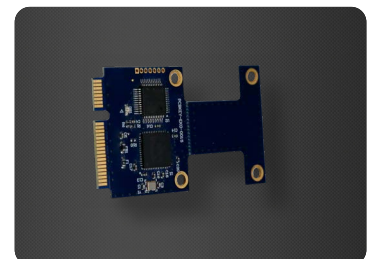
Interface	PCIe X1
Supported operating systems	Windows or Linux
System requirements	Free PCIe slot x1 (or higher)
Power consumption	Approx. 300 mA
Size	87 mm × 6.07 mm



### Carmen® FXMC MINI-PCIE

In functionality, the mini-PCIE NNC is on par with the USB version. The only difference is it's 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 mm (Full-Mini Card format)
	26.80 mm × 30 mm (Half-Mini Card format)



Custom configurations are available when project requires. Please contact our sales team to discuss your project needs and explore tailored solutions. We are happy to help.

