

# Cartridges

## What are Cartridges?

Cartridges are a way of increasing the capabilities of the M221 Logic Controller By adding more I/O or connection options. They are also targeted at specific applications such as conveying, hoisting and packaging. They are attached to the front of the M221 Logic controller and provide options that are not available in either the TM2 or TM3 I/O.



### Note:

The M221 Book Controller is unable to accept cartridge expansion and can only use TM2 or TM3 expansion modules.

## Types of Cartridge

Cartridges allow additional analog I/O and communications options to be added to the M221 Logic Controller. The full list for step 2 is given below.

Cartridge	Function
TMCAI2	2 analog or current inputs
TMCAQ2C	2 current outputs
TMCAQ2V	2 voltage outputs
TMC2CONV01	Serial line for conveying applications
TMC2HOIS01	2 analog voltage or current inputs for hoisting load cell
TMC2PACK01	2 analog voltage or current inputs for packaging
TMC2SL1	1 serial line
TMC2TT2	2 analog temperature inputs

## Cartridges (cont.)

---

### Adding Cartridges

Physically, the cartridge is plugged on to the front of the M221 Logic Controller. A single cartridge can be added to the TM221C16X, TM221CE16X, TM221C24X and TM221CE24X controllers.

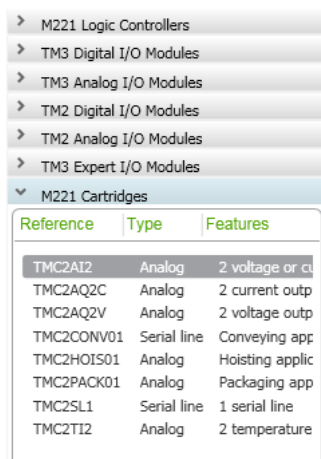


Two cartridges can be added to the TM221C40X or TM221CE40X controllers.



### Configuring in SoMachine Basic

The cartridges are in the SoMachine Basic Library and can be added the same way as I/O modules.



Select the cartridge and drag it on to the M221 Logic Controller.