



Making Data Acquisition Easy

CAGE/NCAGE Code: 3FNFO

### Industrial Ethernet to Serial Conversion

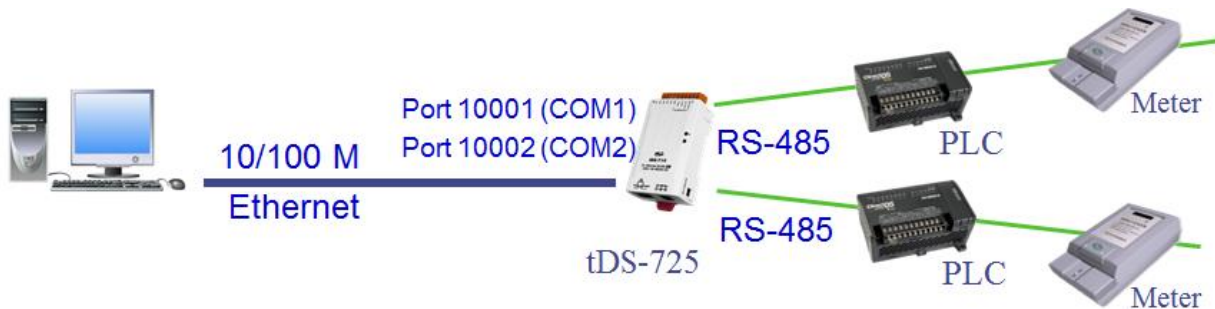
Serial communication is used for numerous types of devices in Industrial Automation and Controls. These include PLC programming, data acquisition and data logging. RS-232, RS-422 and RS-485 ports are required for these applications but they are not available on all computers or there are not enough available ports. One option is to use a serial converter like a USB to RS-485 converter. These are great for single device communication which require a direct connection.

Another option is to use an Ethernet to serial converter. These have the additional benefit of being used for remote and long distance applications like plant monitoring.

Our TDS series Ethernet to serial converters can be used directly connected to a computer or anywhere in the same Ethernet network as your PC. They can connect to devices on the other side of the planet when connected through the world wide web.



Configuration is done through a web browser like Internet Explorer and requires little more than assigning an IP address to the module. Afterwards, you can use our free software utility called VXCom to create virtual com ports for your PC; so that when you open a connection to the virtual com port, it will appear as though the device is connected to a physical com port of your PC. The difference is that the driver will associate the assigned IP address and port number on the TDS module to be that virtual com port. So, the serial device that you are communicating with only needs to be reachable on the network that your PC is on.





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By adding a router or Ethernet Switch, any PC can communicate to these same devices, to configure devices , to monitor or to data log.

The table below can be used for product selection based on number of and type of communication required. We also offer isolation on some models as well as both metal and plastic housings.

tDS-700 Series (Tiny Device Server with PoE and DC jack) : Includes one CA-002 cable.								
Model (Non-Isolated)	Model (Isolated)	Case	RS-232	RS-422/485	RS-485	COM1	COM2	COM3
tDS-712 CR	tDS-712i CR	Plastic	1	-	-	5-wire RS-232	-	-
tDSM-712 CR		Metal						
tDS-722 CR	tDS-722i CR	Plastic	2	-	-	5-wire RS-232	5-wire RS-232	-
tDS-732 CR	tDS-732i CR	Plastic	3	-	-	3-wire RS-232	3-wire RS-232	3-wire RS-232
tDS-715 CR	tDS-715i CR	Plastic	-	1	-	2-wire RS-485 4-wire RS-422	-	-
tDS-725 CR	tDS-725i CR	Plastic	-	-	2	2-wire RS-485	2-wire RS-485	-
tDS-735 CR	tDS-735i CR	Plastic	-	-	3	2-wire RS-485	2-wire RS-485	2-wire RS-485
tDS-718	tDS-718i CR	Plastic	1			3-wire RS-232	-	-
						2-wire RS-485 4-wire RS-422		
tDS-724 CR	tDS-724i CR	Plastic	1	-	1	2-wire RS-485	5-wire RS-232	-
tDS-734 CR	tDS-734i CR	Plastic	2	-	1	2-wire RS-485	3-wire RS-232	3-wire RS-232

If you have any questions, please feel free to contact us to discuss any applications you may have.