



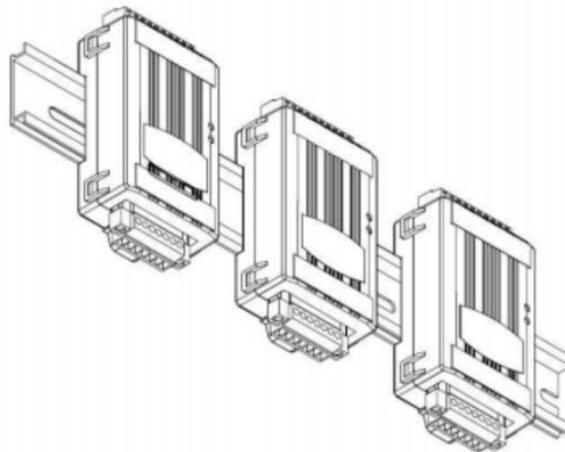
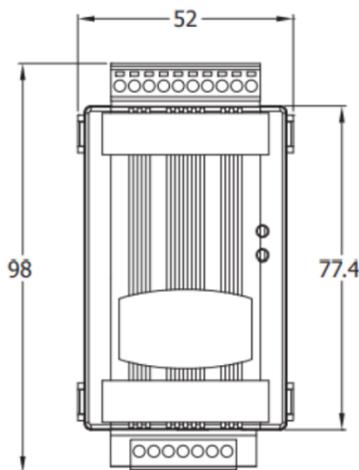
Making Data Acquisition Easy

CAGE/NCAGE Code: 3FNFO

Implement Serial Devices into Ethernet Networks

The [tDS series](#) from ICP DAS USA is designed to provide space efficient solutions for quickly and easily converting serial communication to Ethernet. At a cost effective price, these modules are perfect for applications needing a fast and convenient implementation of serial devices into an Ethernet network.

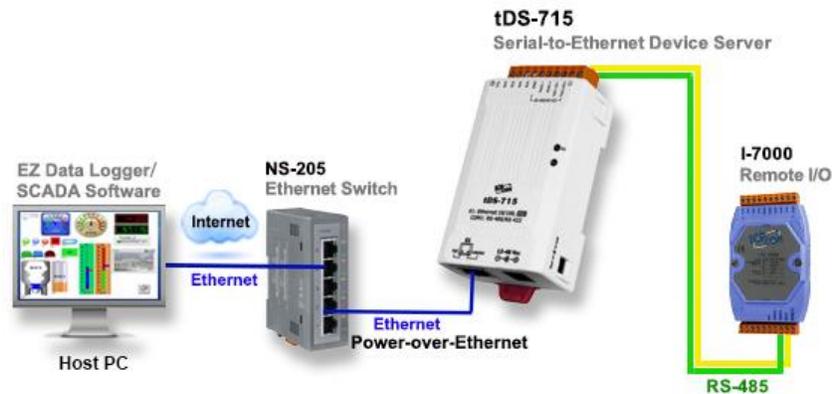
With an intuitive configuration interface accessible via web browser, setup is made as simple as possible. Adjust port settings (baud rate, data size, etc.) or configure network settings (IP address, default gateway, password, etc.) to get the modules ready and working with any application requirements. Mount them on a DIN rail and install them in small spaces to use them discretely in industrial environments.



To connect a serial device to an Ethernet network, connect the appropriate wiring to the terminal located on one end of the tDS module. If you are using an RS-232 device, the [tDS-712](#) and [tDS-722](#) have one and two RS-232 ports respectively. With RS-422 or RS-485, engineers often use the [tDS-715](#), [tDS-725](#), and [tDS-735](#), depending on the number of ports required. After the serial device is properly wired to the tDS module, a simple connection to an Ethernet switch or other Ethernet device can be made with an RJ-45 cable. If the switch supports PoE, the module should be able to turn on. If not, then an external power supply (like the [DIN-KA52F](#))



needs to be connected using a DC jack. For extra security, both PoE and an external power supply can be connected simultaneously to provide redundant power inputs. This ensures that the module remains powered even if one power source experiences failure.



A simple diagram showing the port connections on a [tDS-715](#)

With multiple Ethernet switches and multiple Ethernet ports, application of the tDS series can be used to implement even more robust systems. For example, an existing network of serial I/O modules can be connected to a switch or a PLC with multiple serial devices can also have a serial connection with a tDS module.



Want to learn more? Visit our website www.icpdas-usa.com or give us a call at 1-310-517-9888. You can also reach us through email at sales@icpdas-usa.com. We are available from 8:00 a.m. to 5:00 p.m. PST.