M580 Embedded Ethernet Ports

Introduction

In the previous topic the different types of I/O were explained.

The M580 has 3 ports which, depending on the part number, allows for different types of I/O.

Thus this chapter will present the different ports of the M580, and which of these ports can be used for Remote I/O (RIO) or Distributed I/O (DIO).
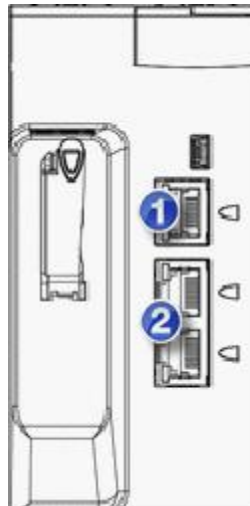
Topic Objectives

By the end of this section the student will be able to:

➢ Identify the different ports of the M580

➢ Describe their roles depending on the part number

M580 Ports

First let's look at the M580 ports.

All M580s have two types of ports, the **Service Port** and the **Device Ports.**

3. The port at the top is the **Service Port.**

4. The two below are the **Device Ports.**

Role of the Service Port

The **Service Port** is mainly used to connect to Unity Pro, a SCADA system, or any other external tool.

The **Service Port** may also be used to connect to a DIO drop.

Finally it can be used for port mirroring.

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**Role of the
Device Port**

This is where there is a big difference between the 2 types of CPU.

If the CPU's type is **20 then the **Device Ports** are used to connect DIO drops. A DIO drop can be composed of almost any device including non Schneider-Electric devices.

If the CPU's type is **40 then the **Device Ports** are used to connect RIO drops.

In both cases the supported architectures are **wired star** or **ring**.