

## Advantech AE Technical Share Document

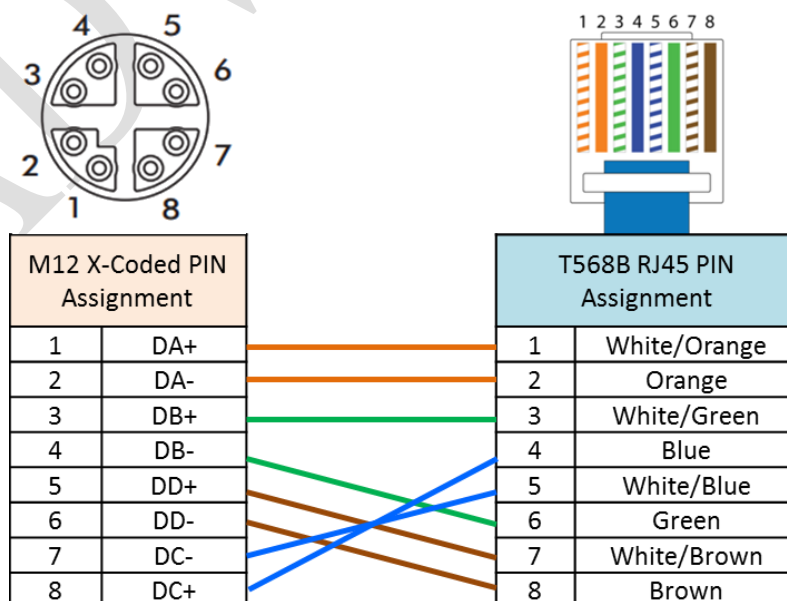
<b>Date</b>	2018/05/22	<b>SR#</b>	External
<b>Category</b>	<input checked="" type="checkbox"/> FAQ <input type="checkbox"/> SOP	<b>Related OS</b>	N/A
<b>Abstract</b>	EKI-9500 M12 Connector with RJ45 PIN Define		
<b>Keyword</b>	Train Switch, M12, X Coded, D Coded, PIN		
<b>Related Product</b>	EKI-9512, EKI-9516		

■ **Problem Description:**

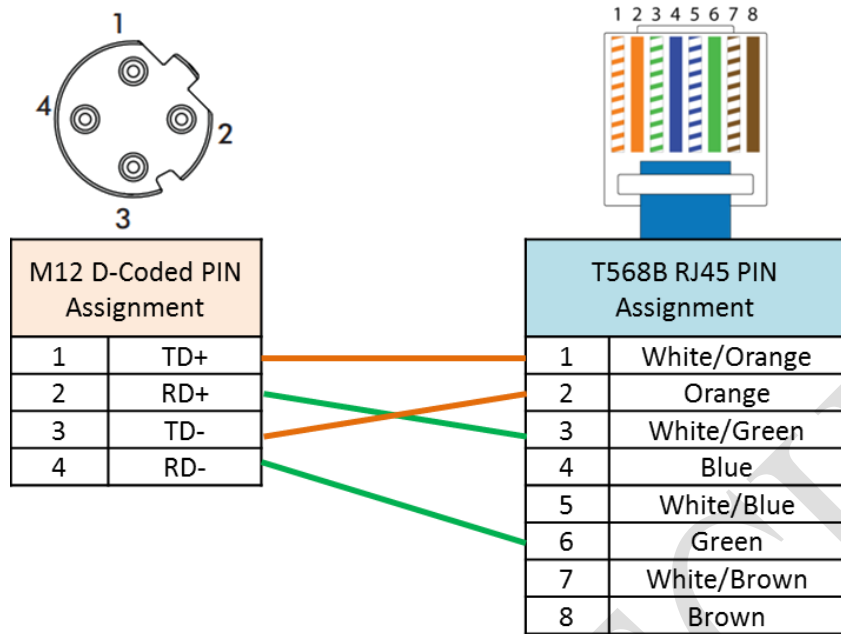
1. How to connect M12 (X-Coded, D-Coded) connector with RJ45 connector? What is its PIN definition?
2. What is the type of RJ45 connector? (T568A or T568B)

■ **Answer:**

Advantech EKI-9512 and EKI-9516 series train switch are M12 connector with X-Coded or D-Coded. X coding is 8-pin shielded M12 connector and used for Gigabit Ethernet ports, **Fig.1.** shows its M12 and RJ45 (T568B) connector Pin assignment. D coding is 4-pin shielded M12 connector and used for Fast Ethernet ports, **Fig.2.** shows its M12 and RJ45 (T568B) connector Pin assignment.



**Fig.1. X-Coded Connector with RJ45 Connector. (10/100/1000 Base T(X))**



**Fig.2. D-Coded Connector with RJ45 Connector. (10/100 Base T(X))**