

Advantech AE Technical Share Document

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Category	■FAQ □ SOP	Related OS	N/A
Abstract	How to choose appropriate console cable on Advantech manage switch.		
Keyword	Manage Switch, Console, Cable PIN Assignment, Baud Rate		
Related Product	EKI-7000 series, EKI-7700, EKI-7400 series, EKI-9200, EKI-9300 series, EKI-9500 series, EKI-9600 series, EKI-9700 series		

■ **Problem Description:**

1. Why can we not access console terminal interface?
2. Replace EKI-7659C with EKI-7710E, but the console cable and baud rate of EKI-7659C doesn't work on EKI-7710E.

■ **Answer:**

The different manage switch use different chip, so users must follow specific spec (console cable and baud rate) to log in console terminal interface. Please refer **Table.1.** to choose an appropriate console cable and setting the right baud rate.

Table.1. Console Cable and Support Model

NOS	NOS5.0	NOS3.0	NOS2.0
Support Model	EKI-7428-4CI	EKI-9228	
	EKI-7428-4CPI	EKI-9312	EKI-7554M/S
	EKI-7706E-2F/ EKI-7706G-2F	EKI-9312P	EKI-7559M/S
	EKI-7708E-4F(I)/	EKI-9316	EKI-7654C
	EKI-7708E-4FP(I)	EKI-9316P	EKI-7659C
	EKI-7708G-4F(I)/	EKI-9512	EKI-7656C
	EKI-7708G-4FP(I)	EKI-9512P	EKI-7657C
	EKI-7710E-2C(I)/	EKI-9512D	EKI-7659CPI
	EKI-7710E-2CP(I)	EKI-9512D-P	EKI-2748FI
	EKI-7710G-2C(I)/	EKI-9516	EKI-2748CI
	EKI-7710G-2CP(I)	EKI-9516P	EKI-7758F
	EKI-7712E-4F(I)/	EKI-9516D	EKI-6558TI
	EKI-7712E-4FP(I)	EKI-9516D-P	EKI-6559TMI
	EKI-7712G-4F(I)/	EKI-9728	

	EKI-7712G-4FP(I) EKI-7716E-4F(I)/ EKI-7716G-4F(I) EKI-7720E-4F(I)/ EKI-7720G-4F(I) EKI-9612 EKI-9628		
Console Cable	Cisco-Like Console Cable	Non-Cisco-Like Console Cable	
Baud Rate	115200	9600	

■ **PIN Assignment:**

The industrial switch supports a secondary means of management. By connecting the RJ45 to RS232 serial cable between a COM port on your PC (9-pin D-sub female) and the switch's RJ45 (RJ45) port, a wired connection for management can be established. (Fig.1.)

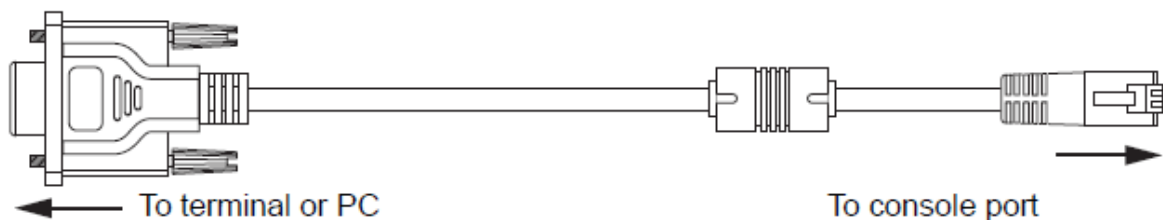


Fig.1. Serial Console Cable

There are 2 kinds of console cable for Advantech's manage switch. One is Cisco-Like console cable and another is Non-Cisco-Like console cable. Their difference is PIN assignment.

A. Cisco-Like Console Cable

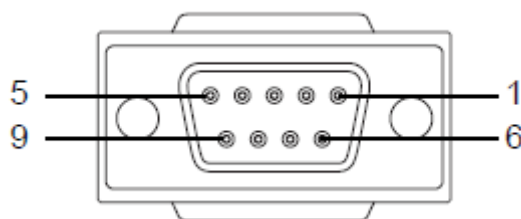


Fig.2. DB 9 Pin Position

DB9 Connector	RJ45 Connector
NC	1 Orange/White
NC	2 Orange
2	3 Green/White
NC	4 Blue
5	5 Blue/White
3	6 Green
NC	7 Brown/White
NC	8 Brown

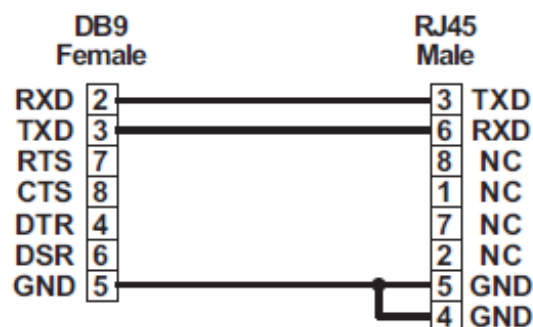


Fig.3. Pin Assignment

B. Non-Cisco-Like Console Cable

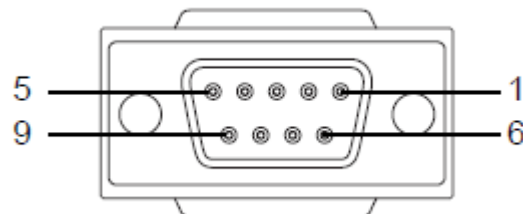


Fig.4. DB 9 Pin Position

DB9 Connector	RJ-45 Connector
NC	1 Orange/White
2	2 Orange
3	3 Green/White
NC	4 Blue
5	5 Blue/White
NC	6 Green
NC	7 Brown/White
NC	8 Brown

Fig.5. Pin Assignment