

6.11. Ethernet Communication Modules (Parallel Bus)

Introduction

The I-8135W is a flexible and high performance five-port Ethernet switch module. It can be installed in PAC (XPAC, WinPAC, LinPAC, iPAC, ViewPAC, ...) and directly gets power from the backplane. An extra power adapter for an Ethernet switch is not needed any more.

I-8135W can work as either of the following modes:

Ethernet Switch:

I-8135W just gets power from backplane of the PAC. There is no extra software driver needed.

Ethernet Adapter:

I-8135W not only gets power from backplane of the PAC but also enables the Ethernet controller on the I-8135W to become an Ethernet adapter.

This can let the PAC have one extra Ethernet port.

To be an Ethernet adapter, there must be a software driver installed in the OS.

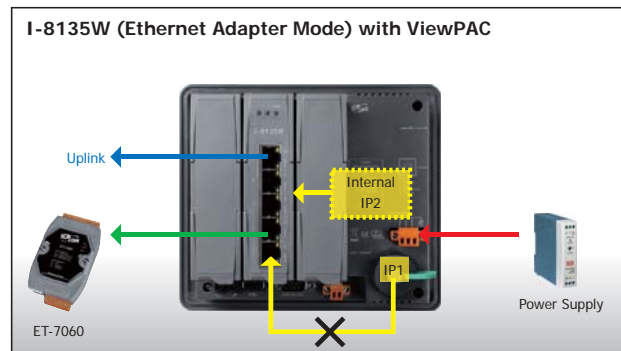
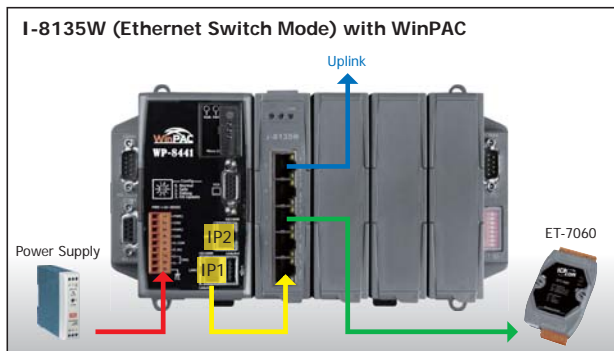
Currently, only VP-23/25Wx (installed WinCE 5.0 and Android 1.6) can support the mode.


In your PAC solutions, if you want to expand Ethernet connection, I-8135W is good to replace regular Ethernet switches to save installation space and power adapter.

Features

- 8-bit Ethernet Controller Inside
- 5-port RJ-45 Ethernet Switch
- Automatic MDI/MDI-X crossover for plug-and-play
- Each port supports both 10/100 Mbps speed auto negotiation
- Full duplex IEEE 802.3x and half duplex backpressure flow control
- 3.2 Gbps high performance memory bandwidth
- Frame buffer memory: 512 Kbit

Applications



Ethernet Communication Module	
Model Name	I-8135W
Pictures	
Ethernet Adapter	10/100 Mbit Ethernet Controller connected to internal port of switch via MII interface
Ethernet Switch	5 External ports (to RJ-45)
Technology	
Standards	IEEE 802.3, 802.3u, 802.3x
Processing Type	Store & forward, wire speed switching
MAC Addresses	1024
Memory Bandwidth	3.2 Gbps
Frame Buffer Memory	512 Kbit
Flow Control	IEEE802.3x flow control, back pressure flow control
Operating Mode	
Ethernet Adapter	Directly supported by WinCE 5.0 and Android 1.5 (for VP-23/25W and VP-23/25A series)
Ethernet Switch	No external software required (for IP-8000, WP-8000, XP-8000, VP-23/25W and VP-23/25A series)
System	
Hot Swap	-
LED Indicators	1 LED as power indicator
	10 LEDs as speed and Link/Act indicators
Power Consumption	6 W