



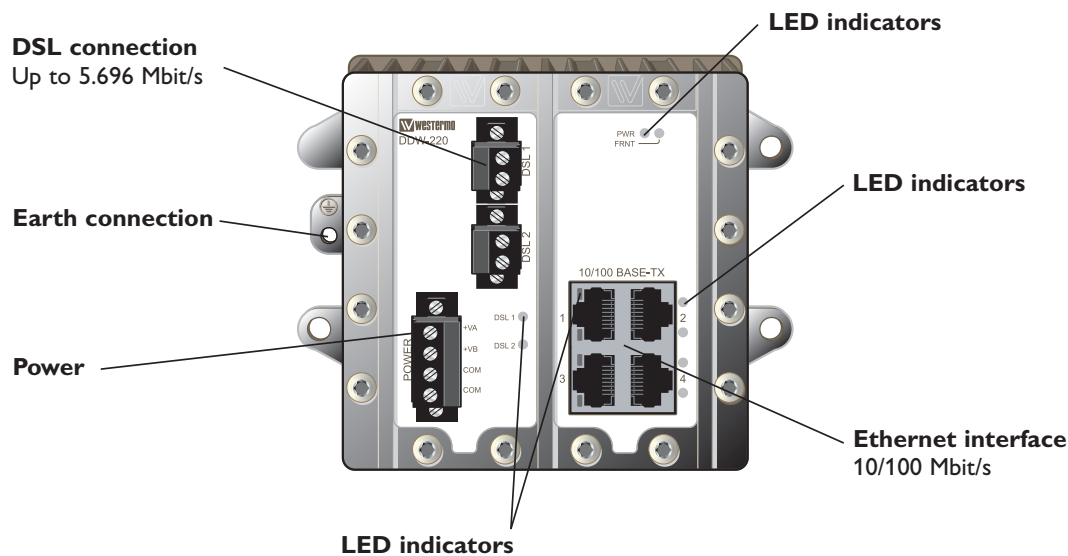
DDW-220



Industrial Ethernet Extender

The DDW-220 is an Industrial Ethernet SHDSL extender with a built-in Ethernet switch. It is designed as a transparent Ethernet Extender for 10/100BaseTX networks.

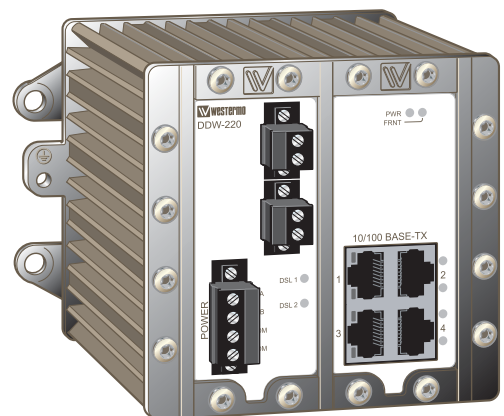
SHDSL represents the best of several symmetric DSL technologies. This unit provides the ability to reuse existing twisted copper pair with data rates from 192 kbit/s to 5.7 Mbit/s in both directions. The DDW-220 makes it possible to communicate over 10 km (6.2 miles) on twisted pair cable.



DDW-220 boot sequence

This section describes in detail the boot sequence and led indication of the DDW-220.

1. At start up PWR, DSL1 and DSL2 indicators are red. PWR, DSL1 and DSL2 indicators will remain red during the boot up period of the internal CPU.
2. After the CPU has booted, the unit will perform an LED walk (indicators will flash green in sequence) and internal hardware tests.
3. After the led walk and internal hardware tests the PWR indicator will change to green which indicates that the unit has performed a successful boot and the CPU is up and running. Ethernet traffic can be sent between the copper ports and to the CPU.
4. The DSL1 and DSL2 indicators will start to flash red indicating that the CPU has started to download firmware to the DSL part of the unit.
5. When both DSL1 and DSL2 LED change state to off the firmware download has been successful. At this point the unit can start to negotiate a link on any DSL interface.
6. Negotiation will start automatically when a cable is attached between a port configured as CPE and a port configured as CO.





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DDW-220 line sharing connection

The DDW-220 is a unit that can be used as a simple “plug and play” device with no management (note all units will have the same IP address) or in a line sharing application with several DDW-220. If you wish to control the line status of any unit you will need to configure individual IP addresses.

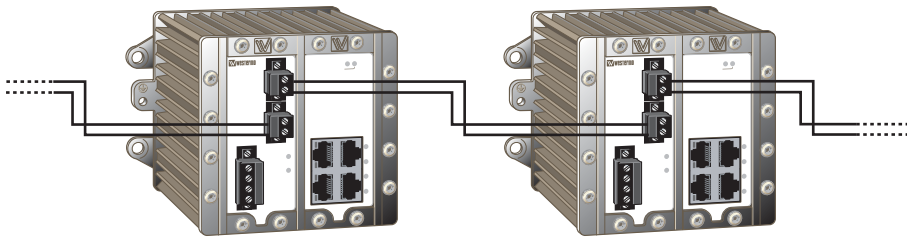
The factory default setting is “plug and play”. The factory default IP address is 192.168.2.200, if you need to manage units in the network we recommend setting different IP addresses before installing the units into the network.

One option to quickly configure the IP addresses across an entire installation is to use the IPconfig tool (version 9.8.5 or above). Whilst installing the DDW-220 make a note of the MAC address of the units and their locations. Once all the units are installed, running and connected launch the IPconfig tool on a connected PC. Ensure the IP address in IP config tool is in the same subnet as the PC and then click on “Scan for Switches”. A list of DDW-220 will now be shown. All will have the same IP address, but the MAC addresses will allow you to determine which is which. Simply click on each device and change the IP address of the devices. Once you have configured all the IP addresses you can launch internet explorer from within IP config tool allowing you to monitor and diagnose at any point in the network.

Note! If you are not sure about the subnet – consult your network administrator

The only important thing to remember when connecting the DDW-220s is to always connect DSL1 to DSL 2 and so on, since:

- ⌘ Interface DSL1 is configured as CPE / Speed setting is auto.
- ⌘ Interface DSL2 is configured as CO.



To negotiate a SHDSL link between two units one unit needs to be configured as CPE (Customer Premises Equipment) and the other as CO (Central Office). The CO unit dictates the negotiation to the CPE, so speed setting is only relevant for the CO unit.

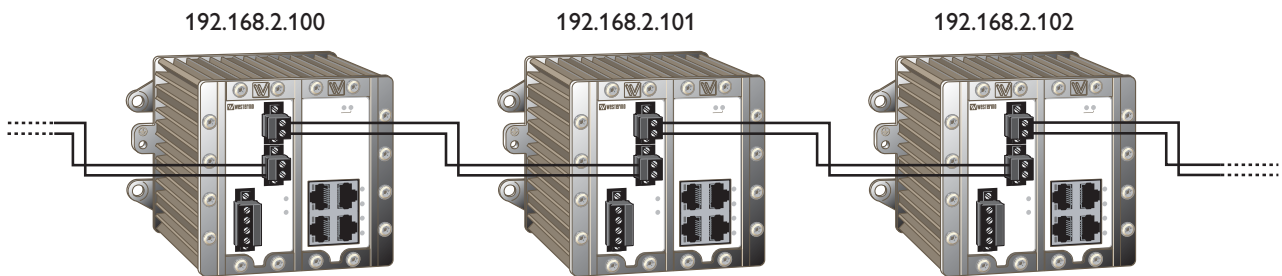


DDW-220 line sharing connection, managed network

Connect DSL1 to DSL 2 in order to connect CO to CPE as described above. To supervise the individual units you need to change the IP settings to individual IP addresses- examples below.

To negotiate an SHDSL link between two units one end of the line needs to be configured as CPE (Customer Premises Equipment) and the other as CO (Central Office). The CO unit dictates the negotiation to the CPE, so speed setting is only relevant for the CO unit.

When you have individual addresses you can then use the integrated web server pages to analyse the status of the DSL line.



When you have individual addresses you can then use the integrated Web tool to analyse status of the DSL line.