



FriendlyNet Switch 4008E Read Me First

Thank you for purchasing the Asante FriendlyNet Switch 4008E. This Read Me First contains important information regarding the operation of your new switch and trouble shooting steps. Please carefully read this entire Document.

Configuration:

The Asante FriendlyNet Switch 4008E is a fully automated, dual-speed, 10/100 Ethernet switch which has a default configuration for each port selected for Full NWay auto-negotiation. This means that upon link any connected port will attempt to run at the fastest mode possible, 100Mbps Full Duplex.

Some older Network Interface Cards (NIC's) and other 100Mbps or 10Mbps only devices, including Asante Technologies "3-in-1" devices (supporting automatic selection of RJ-45, BNC or AUI interfaces) may have trouble properly negotiating with NWay enabled devices.

If you have these older products, or suspect an auto-negotiation problem, or wish to manually configure a device to 10Mbps Half-duplex only operation, this is possible by toggling the DIP switches on the rear of the 4008E unit.

The operation of the DIP switches (the series of small white switches at the rear of the unit) is as follows.

- ❑ By default all ports (1-8) have the DIP switches set to the up position for full NWay operation.
- ❑ Any and all ports (1-2) can be set to 10Mbps Half-Duplex only operation by selecting the down position for the DIP switches.

Additionally this feature can be used to identify and resolve "duplex mismatch" errors. – see "Trouble-Shooting" below.

Note: DIP switch 9, marked N/A, is not enabled and will not effect any functions of the switch or ports.

Trouble-shooting:

Auto-negotiation Problems:

Symptom – link light is unstable (cycles on and off). The switch link port will not come on or may blink on and off.

Solution – to resolve this problem set the effected port DIP switch to the up position for 10Mbps Half duplex operation. Check card or device setting. Reboot or reestablish link by unplugging patch cable.

Symptom – the speed or duplex setting of the end station has been manually changed but does not seem to have taken effect or performance has degraded.

Solution – unplug and reinsert the RJ-45 into the port in question. This will restart the negotiating process and allow settings to take effect.



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Duplex Mismatch Problems:

If you are experiencing very slow performance or a preponderance of collisions with your switch this may be caused by a “Duplex-Mismatch” error.

Please check to see that both sides of your connection have properly negotiated the same duplex settings.

Some older cards, fixed speed devices or manually configured devices can present problems for NWay enabled auto-sensing switches.

If you think you are experiencing this type of problem please configure both sides to the identical settings. With the Asante FriendlyNet Switch 4008E you have the options to set the switch port to either: Full NWay negotiation (for Duplex and speed), or 10 Mbps, half duplex operation only.

Symptom – performance seems to be extremely slow.

- Check attached device duplex settings
- Manually toggle the DIP switch of the port in question to 10Mbps half duplex if necessary
- Unplug and reinsert the RJ-45 into the port in question. This will restart the negotiating process and allow settings to take effect.
- Manually set both sides of the connection to 10Mbps half duplex mode and reset the devices if necessary

Questions:

If you should have any questions regarding the use or configuration of your new switch please call Asanté Technical support between the hours of 6 AM to 5 PM (Mountain Time) Monday through Friday at (800) 622-7464.