

Technical FAQs

Question: Can a 100 Mbps Fiber port be connected to a Gigabit Fiber port?

Question Type: Application

Solutions:

- Fiber-optics uses light pulses to transmit information through fiber lines instead of using electronic pulses to transmit information over copper lines.
- The current Auto-Negotiation technology for fiber-optics cannot force transmissions between hosts with two different pulse rates to communicate with each other. The various fiber optic Ethernet standards (10 Mbps 10BASE-F, 100 Mbps 100BASE-FX, and 1000 Mbps 1000BASE-X) use different wavelengths of optical signaling that make it impossible to come up with an Auto-Negotiation signaling system that works across all three. Instead, only the 1000BASE-X fiber optic media system has an Auto-Negotiation spec that allows two Giga FX devices on a Gigabit Ethernet fiber optic link to determine which modes of operation they have in common (e.g., full-duplex) and then configure the modes.
- Please contact us at dhe@henrich-inc.com if you have any additional questions.