

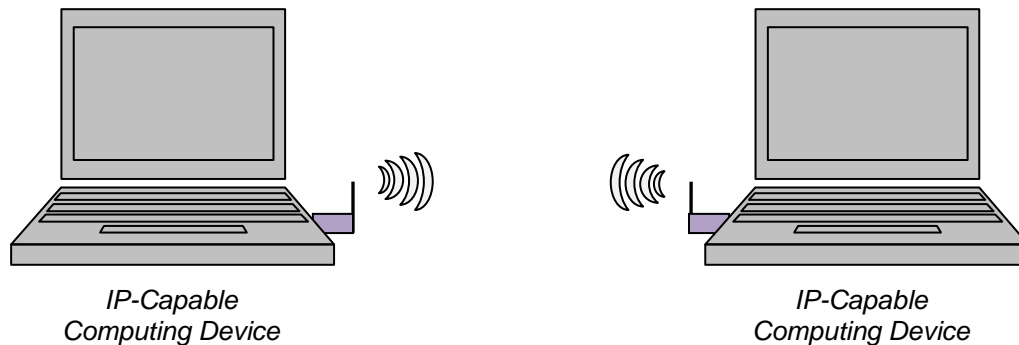
## AL57600-EVK Ethernet Cable Replacement Kit

### Description

Consumers and product vendors may need to replace the Ethernet cable between two IP computing devices with a wireless link, and in a way that is transparent to the computing devices (i.e. no software installation on the computing devices). The AL57600-EVK Ethernet Cable Replacement Kit meets this challenge by allowing connection of two IP computing devices using a transparent wireless link. The EVK features two radio nodes: one for each end of the link. The two radios create a transparent wireless bridge; neither computing device knows that a wireless link has replaced the wired link. The link between the computing devices automatically establishes when the radios are within range (typically 5 - 10 meters). The link supports throughputs of up to 100 Mbps, depending on the application.

### Use Case

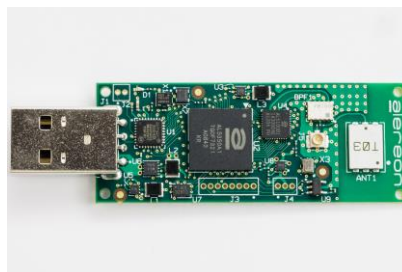
The AL57600-EVK Ethernet cable replacement case is shown in the following diagram.



The Alereon radios connect to the computing devices via RJ45 Ethernet jacks, and provide transparent exchange of IP data.

### Kit Contents

Each evaluation kit contains two radios, allowing the customer to connect two computing devices to one another. The radio on each end is the combination of an Alereon AL5704 Worldwide Wireless USB Adapter and an Alereon AL5630 Single-Port Ethernet Wireless Adapter. The AL5704 contains the Alereon radio with an external USB2.0 type A connector. The AL5704 is shown in the following image.



The AL5630 implements a bridge between the AL5704 and the RJ45 Ethernet interface. The AL5630 is shown in the following image.



The AL5704 plugs into the AL5630's USB2.0 type A jack. The AL5630 connects to a computing device via an Ethernet cable plugged into the AL5630's RJ45 port. The AL5630 accepts a 5V power supply which powers the radio and RJ45 electronics.

The following table describes the contents of the evaluation kit.

<b>Item</b>	<b>Description</b>
<i>2 (two) AL5704 Worldwide Wireless USB Adapters</i>	Radios for computing devices
<i>2 (two) AL5630 Single-Port Ethernet Wireless Adapters</i>	Ethernet-to-radio adapters for computing devices
<i>2 (two) 5V power supplies</i>	Power supplies for AL5630s