ELINK

# ELINK uses Multi Test Platform to validate Data Link on ARJ21 aircraft

## OBJECTIVES

◆ Increase service offering to aviation customers

◆ Offer Data Link testing to aviation customers

◆ Portable system in order to provide onsite testing

## WHY AIRTEL ATN?

◆ Independent of communications provider

◆ Self contained, ruggedised, portable test equipment

◆ Independent of radio manufacturer

## SOLUTION

◆ Multi Test Platform (VHF Data Link) test equipment

## RESULTS

◆ ARJ21 aircraft Data Link testing

◆ Ground station testing

◆ Tests can be undertaken on customer premises such as aircraft hangers



## BACKGROUND

Founded in 2003 in China, ELINK Electronic Co Ltd is a Chinese technology company operating in the aviation industry. It also has businesses covering high speed railway and space.

As a company specialising in cable harness process equipment, tools and testing, ELINK has years of experience in aviation industry projects. ELINK maintenance centre provides customers with cable testing, technical support and maintenance and repair services.

## ENABLING TECHNOLOGY

To increase the service offered to aviation customers, ELINK wished to provide Data Link test services. Data Link is the text message service used between pilot and Air Traffic Control to automate the most commonly used commands and therefore increase passenger safety.

ELINK researched the market and found that Airtel ATN provides a ruggedised, portable test system that can be used to test aircrafts' Data Link connections.

Airtel ATN's Multi Test Platform (MTP) combines a mini-VDR with PC, power supply and control circuits to provide a fully portable testing and monitoring station. It runs for 4 hours on full charge and will charge whenever it is connected to power.

## RESULTS

The Multi Test Platform can be used to operate as either an aircraft or a ground station. It is fully portable and durable which is an important requirement for test equipment of this nature. The MTP is also ideal for field and flight-line testing. ELINK tested the Data Link on the ARJ21 aircraft.

ELINK is qualifying and validating Data Link on new aircraft built by **COMAC**, the Commercial Aircraft Corporation of China owned by the Chinese government. Its C919 aircraft will start flying in 2015. Data Link testing on the C919 will also use Airtel ATN's Multi Test Platform.

> " Airtel ATN's MTP provides us with great flexibility. We can test Data Link anywhere the plane is including the aircraft hangar. It also has the added benefit of acting as either an aircraft or a Data Link ground station. "
>
> **Deming Wu, ELINK**