

# GPS Inside the Production Facility

## Testing the GPS Functionality of Computers on the Assembly Line

### Introduction

An international electronics manufacturer with sites in over 35 countries needed to test the GPS functionality of computer products manufactured at one of its UK sites.

### Problem

To enable the company to fully test the GPS capability on the production line, a GPS repeating system had previously been installed to bring the GPS signal inside the facility.

Although the signal was being successfully retransmitted inside the production area, it was unreliable and it was taking some time for the equipment to get a lock onto the GPS satellites.

### Solution

The manufacturer engaged the assistance of Chronos Technology, the GPS repeater solutions and installations expert. Chronos re-engineered the existing installation, including replacing a passive antenna, upgrading the cable and locating and replacing a faulty amplifier.

### Rapid ROI

The manufacturer was able to achieve a rapid Return on Investment as the re-engineered installation increased both productivity and the quality of its products.

The installation of a GPS repeater significantly increases productivity and ROI by bringing the GPS / GNSS signal inside the facility enabling testing or calibration of GPS-enabled devices on a production line or end of line testing; laboratories; or infotainment and satnav systems on a vehicle assembly line.

### Quote from the Production Engineering Team Leader

“The Chronos engineer installed the GPS repeater faster than we anticipated and worked at the weekend to suit our scheduling needs. The installation has worked very effectively and improved our productivity and quality and ensures that all our laptops are tested and working correctly before we ship them to the customer.”

Chronos Technology provides a full GPS repeating installation service from establishing the location of internal antennas, designing the layout and implementation of the solution through to comprehensive after sales support. The highly skilled Chronos installation team is fully competent with GPS equipment and solutions and has installed both military and civil repeating solutions in buildings, hangars and aircraft throughout the world over the last 25 years.

Customers in the UK should be aware that a licence will be required to operate GPS repeating equipment. This is managed by Ofcom and further information can be found [here](#)»



Typical GPS Repeater Kit

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