



# Installation Instruction, Mechanical

Applicable for EC400

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# 1 General

This document describes the procedure for installing the mechanical set up for an EC400 ExpressCard.

## 2 Test Set Up

### 2.1 Requirements

#### 2.1.1 Hardware

- Windows compatible laptop with the following minimum requirements based on frequency of card testing:
  - Low Volume
    - P3 1.0 GHZ
    - 512 MB RAM
    - Windows 2000
    - 0.5 Mbps internet connection
  - Medium Volume
    - P4 2.0 GHz
    - 512 MB RAM
    - Windows 2000 or XP
    - 2.0 Mbps internet connection
  - High Volume
    - P4 3.0 GHZ
    - 1.0 GB RAM
    - Windows XP
    - 10 Mbps internet connection
  - ExpressCard Slot
  - Type II PC Card Slot (if using Active ExpressCard/34 Adapter)
  - 300 MB free hard disk space
  - Internet Explorer™ 4.0 Service pack 1, or later
  - Adobe® Acrobat Reader. Available at [Adobe](http://www.adobe.com)
- Active SIM Card



**NOTE: THE NETWORK SUBSCRIPTION YOU USE IN CONJUNCTION WITH YOUR EXPRESSCARD DEPENDS ON THE FUNCTIONS AND FEATURES YOUR NETWORK OPERATOR CAN PROVIDE. CONTACT YOUR NETWORK OPERATOR OR SERVICE PROVIDER TO MAKE SURE THAT DATA OPTIONS ARE INCLUDED IN YOUR SUBSCRIPTION, AS THESE ARE USUALLY OPTIONAL SERVICES.**

- Known good (Golden) EC400 ExpressCard for reference.
- Active ExpressCard/34 Adaptor (optional)

### 2.1.2 Software

- Sony Ericsson Wireless Manager Application

**NOTE: THE SONY ERICSSON WIRELESS MANAGER CAN BE DOWNLOADED FROM THE SONY ERICSSON WEBSITE. THE ADDRESS IS:**

<http://www.sonyericsson.com/support>

- Emma

**NOTE: EMMA CAN BE DOWNLOADED FROM THE EMMA III WEBSITE:**

<http://ma3.extranet.sonyericsson.com/ma3/>

## 2.2 Software Installation

**NOTE: DO NOT INSERT THE EXPRESSCARD INTO THE LAPTOP UNTIL YOU HAVE INSTALLED THE SONY ERICSSON WIRELESS MANAGER. SIMPLY CANCEL THE NEW HARDWARE WIZARD IF THE CARD IS ACCIDENTALLY INSERTED PRIOR TO THE SOFTWARE INSTALLATION.**



## 2.2.1 Installing Wireless Manager

1. Download the Sony Ericsson Wireless Test Manager from the Sony Ericsson support website (<http://www.sonyericsson.com/support>).
1. Go to [www.sonyericsson.com/support](http://www.sonyericsson.com/support)
2. Click on desired language portal
3. Click on "Mobile Broadband"
4. Select the model number (i.e. EC400)
5. Click on "Wireless Manager"
6. Download the appropriate version of the "Sony Ericsson Wireless Manager".
7. Follow the installation instructions provided on the website.

**NOTE: REMOVE OLD VERSIONS OF WIRELESS MANAGER BEFORE INSTALLING A NEW ONE.**

2. Open the zipped file containing the Sony Ericsson Wireless Test Manager and extract the files to a spare folder on your laptop.
3. Run "**setup.exe**".
4. The InstallShield Wizard for the Sony Ericsson Wireless Manager opens; follow the instructions on the screen. When installation is complete click **Finish**.

## 2.2.2 Installing EMMA

1. Go to the Emma Website: <http://ma3.extranet.sonyericsson.com>
2. Click on the "Emma Installer" under "Downloads"
3. Save the latest version of the installer to your computer
4. Run the installer and follow its instructions

## 2.3 Hardware Installation

### 2.3.1 Installing the ExpressCard

1. Insert your SIM card into the slot on the back of the ExpressCard with the gold contacts on the SIM card facing towards the ExpressCard.
2. Insert the ExpressCard into an ExpressCard slot of the computer. Make sure the ExpressCard is fully inserted.

**NOTE: YOU MAY WISH TO USE AN ACTIVE EXPRESSCARD/34 ADAPTOR INSTEAD TO INTERFACE WITH THE LAPTOP AND EXPRESSCARD. LEAVE THE ADAPTOR INSERTED INTO THE TYPE II PC CARD SLOT OF THE LAPTOP AND CONNECT EACH CARD TO THE ADAPTOR INSTEAD. THIS WILL EXTEND THE LIFE THE OF LAPTOP'S TYPE II PC CARD CONNECTOR PINS.**

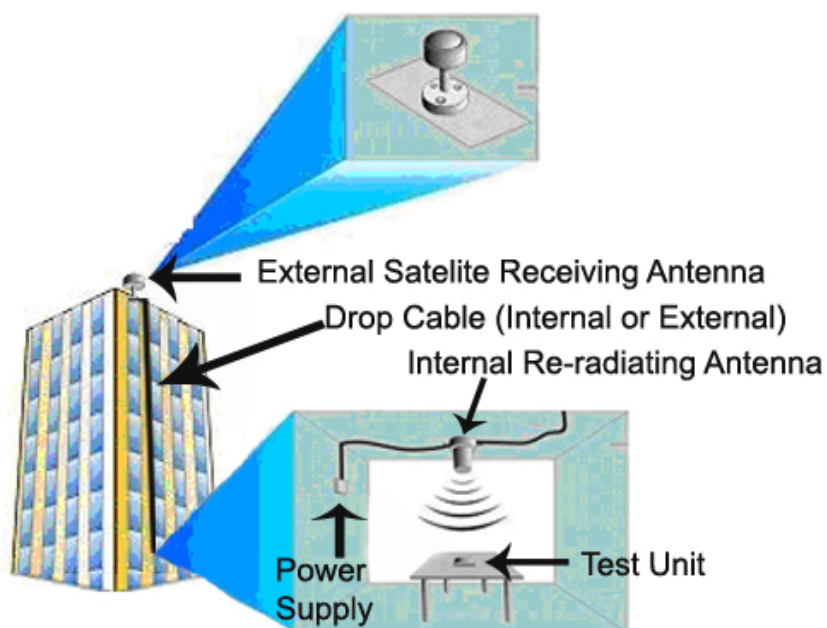
## 2.4 GPS Installation (EC400g only)

The ability to test GPS functionality on products is required, but two options are available. Repair centers may select the option that best fits their spatial, financial, operational needs, etc. More information about the two options can be found in the Repair Specification Equipment List. Once a repair center selects an option, the center must be able to perform that option reliably as determined by SEMC certification standards.

The two options are a Re-radiating system and a Satellite Signal Simulator system.

### 2.4.1 Re-radiating GPS System

Following manufacturers instructions, install the system on and in the facility as indicated by the drawing below.



**NOTE: AFTER INSTALLING THE EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS, THE REPAIR CENTRE MAY USE ANY GPS RECEIVING DEVICE TO ENSURE THE SIGNAL STRENGTH BEING RADIATED FROM THE ANTENNA IS ADEQUATE.**

## 2.4.2 Satellite Signal Simulator System

Following manufacturers instructions, install the system as indicated by the photo below.



Connect the passive antenna to the rear output.

## 3 Flash Set Up

Ensure EMMA is installed as instructed in section 2.2.2.

### 3.1 Requirements

The same laptop computer used for testing can be used as the interface to update the software in the ExpressCards. You must have an Internet connection that is **NOT** set up using the ExpressCard – e.g. modem dial-up or broadband (minimum speed should be 56kbps).

**NOTE: A DESKTOP COMPUTER MAY BE USED INSTEAD OF A LAPTOP COMPUTER. HOWEVER, THE DESKTOP COMPUTER MUST HAVE AN EXTERNAL EXPRESSCARD SLOT TO INTERFACE WITH THE EC400 CARD.**

## 4 Revision History

Rev.	Date	Changes / Comments
1	2008-06-18	Initial release