# Genmega Linux ATM Installation Guide

2023-12-01

This document outlines the procedure for installing Genmega ATM application for Linux on a Kiosk running Ubuntu 22.04 LTS.

## Installation Files

When you download the installation file or extract the compressed file, you will see the following files:

- LxGenDevService-{version}.tar.gz
- LxAtm-{version}.tar.gz
- LxGenDevServiceDotNet-{version}.tar.gz
- Genmega Linux Application Installation Guide.docx

Copy the installation files to the user's working directory and proceed with the following steps.

Each installation package includes descriptions, example files, and sample programs related to the device. For detailed information, refer to the readme file or documents in the doc folder after extracting each package.

# Change System Settings

## Enable Auto Login

To initiate the desktop environment for the user account upon system boot, automatic login settings are required.

Open Settings > Users and enable 'Automatic Login' option.

## Give user account permissions to access serial ports

The following commands should be executed in a Linux console terminal.
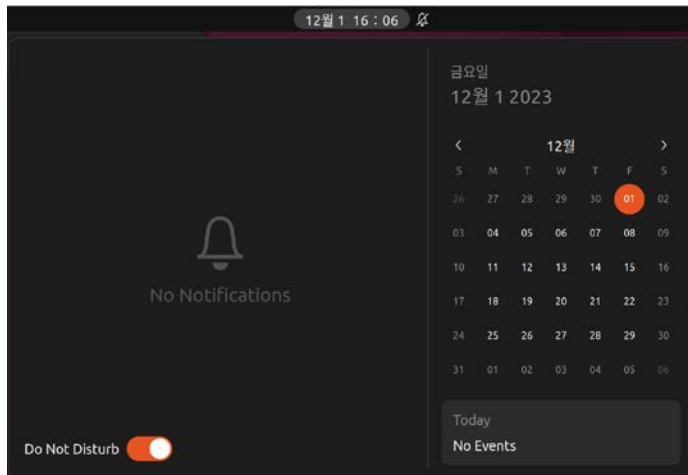
Open a terminal application and execute.

```
$ sudo usermod -a -G dialout {user}
```

The {user} is login account that ATM application runs on.

## Turn on 'Do Not Disturb'

Disable notifications during the switching between the Kiosk and ATM applications.

## Installing Device SDK Services

Install services and shared libraries for controlling the devices.

```
$ tar -xzvf LxGenDevService-{version}.tar.gz
$ cd LxGenDevService-{version}
$ ./install.sh

Do you want to continue? (Y/n) Y
.
.
.
[sudo] password for {user}:
.
.
.
Installation completed successfully.
```

## Installing ATM Application

Install the ATM executable file and configuration files. The ATM application requires the Device SDK, so make sure the Device SDK services are installed.

```
$ tar -xzvf LxAtm-{version}.tar.gz
$ cd LxAtm-{version}
$ ./install.sh

Do you want to continue? (Y/n) Y
.
.
.
[sudo] password for {user}:
.
.
.
Preparing to unpack LxAtm-{version}.deb ...
Unpacking lxatm ...
Setting up lxatm ...
```

# Extract and execute .NET Core Samples

The .NET Sample package is an example demonstrating how to access Genmega devices from a customer's .NET Kiosk Application and integrate with the ATM Application.

## Install Chromium Browser

```
$ sudo apt-get update
$ sudo apt-get install chromium-browser
```

## Install dotnet core runtime 7.0

```
$ sudo apt-get install -y aspnetcore-runtime-7.0
```

## Extract example projects

Extract sample codes to your working folder.

```
$ tar - xzvf LxGenDevServiceDotNet-{version}.tar.gz
```

## Run .NET Core with React.Js sample application

```
$ cd LxGenDevServiceDotNet-{version}/LxGenDevAspNetReactSample/bin/publish
$ dotnet ./LxGenDevAspNetReactSample.dll
```

## Configure as auto startup application

To launch a Kiosk application automatically upon Ubuntu startup, you need to register it as a startup program in the system.

Create run-kiosk.sh shell script

```
#!/bin/bash

cd {full-path-of-LxGenDevServiceDotNet-xxxxxx}/LxGenDevAspNetReactSample/bin/publish
dotnet ./LxGenDevAspNetReactSample.dll
```

Replace {full-path-of-LxGenDevServiceDotNet-xxxxxx} to your folder name.

```
$sudo chmod 755 run-kiosk.sh
```

Open Startup Applications via the Activities overview. Alternatively, you can press Alt+F2 and run the 'gnome-session-properties' command.