Installation Manual for BKG Ntrip Client (BNC) Software on SuperMicro Computer

Station:

EDA Office

SuperMicro:

SuperServer 5019C-L

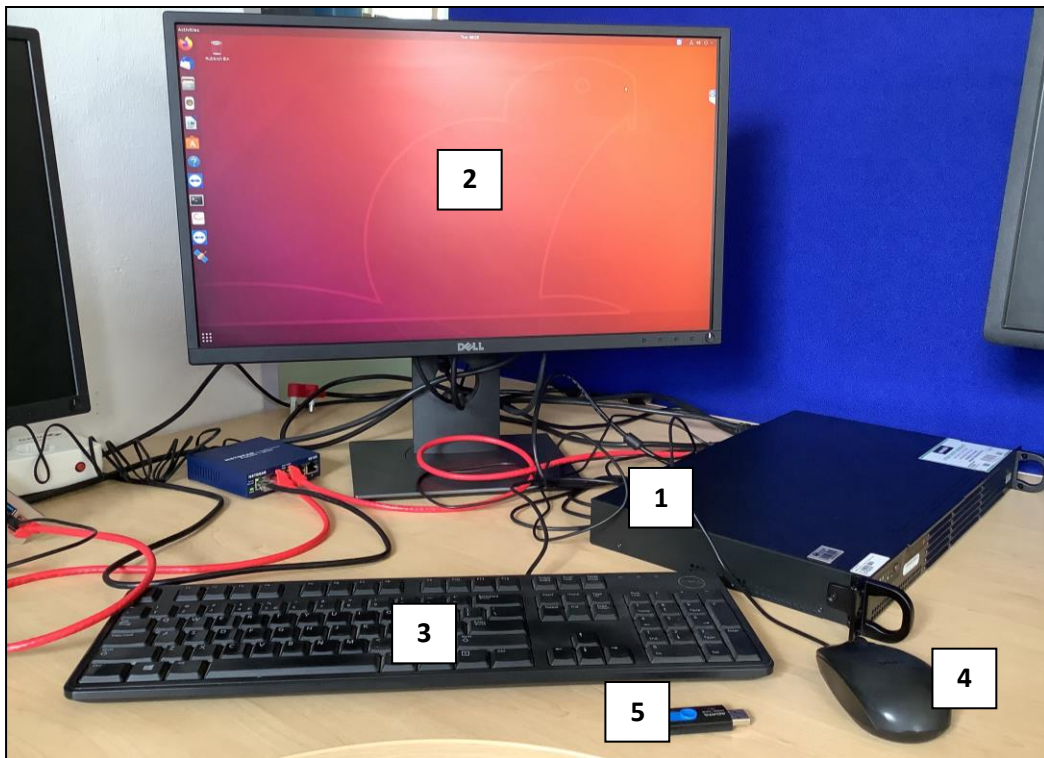Compiled by: D.J. van Wyk (February 2021)

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Overview

This manual will serve as a guide to the set-up and installation of GNSS data stream computers. The hardware used in this manual includes:

1. SuperMicro SuperServer 5019C-L

2. Computer Monitor

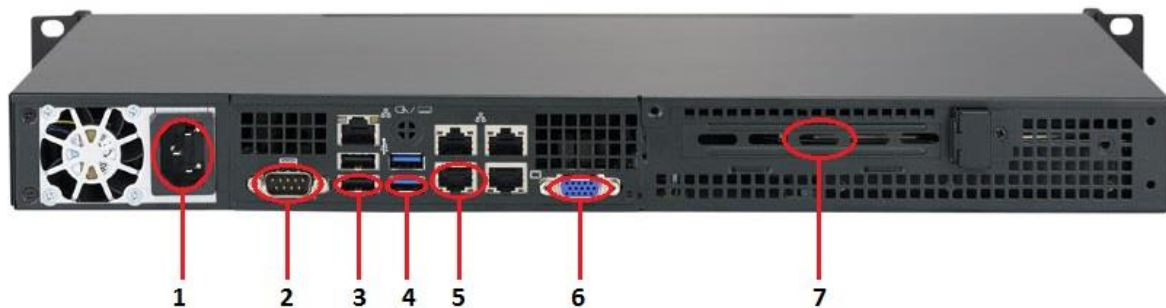3. Keyboard

4. Mouse

5. USB Flash drive

The software used in this manual includes:

1. Ubuntu Desktop 18.04 Installer loaded onto a flash drive.

2. BKG Ntrip Client (BNC) – real-time GNSS data stream.

Hardware Connections

Below are images of the backside of the SuperMicro SuperServer currently being used by SANSA.

SuperMicro SuperServer 5019C-L:

The connections are made as follows:

1. Power

2. Keyboard and mouse in port above

3. Flashdrive with software i.e. Ubuntu 18.04

4. eth0 (Ethernet)

5. VGA (Monitor)

GNSS Data Stream Software Installation

1. Install Ubuntu 18.04 Desktop version to your preference with time zone set to UTC/GMT.

2. Open a new terminal and type the following commands:

   a. `sudo apt-get update && sudo apt-get upgrade`

   b. `sudo apt install build-essential`

   c. `sudo apt-get install qt4-default`

   d. `sudo apt-get install libqtwebkit4`

   e. `sudo apt-get install libssl1.0-dev`

   f. `sudo apt install subversion`

   g. `cd ~` *make sure you are in the root directory

   h. `svn checkout - -username guest - -password guest` https://software.rtcm-ntrip.org/svn/trunk/BNC

   i. `cd BNC`

   j. `qmake bnc.pro`

   k. `make`

   l. `sudo apt-get install libcanberra-gtk-module`

   m. *Installation done*

   n. *Launch BNC*

   o. `./BNC`

3. The following screen should then display of BKG Ntrip Client (BNC)