



# **NITGEN USB Device Driver for Linux Installation Guide**

**Version 1.12  
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**NITGEN&COMPANY Co., Ltd.**

## Document Version History

Version	Date	Comments
1.00	24-OCT-2004	Initial Release
1.01	26-NOV-2004	version modify
1.02	29-NOV-2007	Added device
1.03	08-JAN-2008	version modify
1.04	08-MAY-2008	version modify & Added device
1.05	20-JUN-2008	version modify
1.06	29-JAN-2009	version modify
1.07	05-JUN-2009	Added device
1.08	17-SEP-2010	version modify & Added device
1.09	28-SEP-2010	version modify & Added device
1.10	13-DEC-2010	version modify & Added device
1.11	22-JUL-2011	version modify
1.12	10-APR-2012	Added device

# 1. Overview

This Document guides NITGEN USB Fingkey Hamster, NITGEN USB Fingkey Hamster II / II DX, NITGEN USB eNBioScan-F, NITGEN USB eNBioScan-D and NITGEN USB eNBioScan-C1 device driver install on your Linux system.

## 2. System

### 2.1 System Requirement

item	Recommendation
CPU	Intel Pentium or higher / Intel Pentium 4 2.0G or higher (HFDU05/07) / Core2Duo 2.4G or higher (DFDU-500)
RAM	128M or higher / 512M or higher (HFDU05/07) / 1024M or higher (DFDU-500)
kernel	Linux kernel 2.6 higher / Linux kernel 2.6.23 or higher (DFDU-500)
USB	USB 1.1 / 2.0 : HFDU04/06, HFDU11/14/06M/06S, HFDU08 USB 2.0 : HFDU05/07, DFDU-500
Device	NITGEN USB Fingkey Hamster (HFDU04/HFDU06) / NITGEN USB Fingkey Hamster II / II DX (HFDU11/HFDU14/HFDU06M/HFDU06S) / NITGEN USB eNBioScan-F (HFDU05/07) / NITGEN USB eNBioScan-D (DFDU-500) / NITGEN USB eNBioScan-C1 (HFDU08)

## 3. Installation

### 3.1 NITGEN USB Fingkey Hamster

#### 3.1.1 Package File Name

- VenusDrv-1.0.3-1.tar.gz : NITGEN USB Fingkey Hamster(HFDU04/HFDU06) for Linux

#### 3.1.2 How to install

```

]#tar -zxvf VenusDrv-1.0.3-1.tar.gz
]#cd VenusDrv-1.0.3-1
]#cd gcc4.0
]#./CreateModule
]#./install.sh
    
```

#### 3.1.3 Folder Information

Venus-1.0.3-1.tar.gz			
File name	Directory	Description	Attribute <sup>1)</sup>
VenusLib.so	/lib	Device Driver library used in eNBSP SDK for Linux	755
VenusDrv.ko	/lib/modules/\$kernel-version/kernel/drivers/usb/misc/	NITGEN USB Fingkey Hamster Driver Module	644
VenusDrv.h	/usr/include/linux/	Driver Module header	644
VenusDrv.conf	/etc/	Device configuration value	666
Device node	/dev/nitgen0 /dev/nitgen1 /dev/nitgen2 /dev/nitgen3 /dev/nitgen4 /dev/nitgen5 /dev/nitgen6 /dev/nitgen7	Create nodes for the device. Character device node.	666

<sup>1)</sup> Default attribute value

**3.2 NITGEN USB Fingkey Hamster II / II DX**

**3.2.1 Package File Name**

- ngstardrv-1.0.3-1.tar.gz : NITGEN USB Fingkey Hamster II(HFDU11/HFDU14) / II DX(HFDU06M/HFDU06S) for Linux

**3.2.2 How to install**

```

]#tar -zxvf ngstardrv-1.0.3-1.tar.gz
]#cd ngstardrv-1.0.3-1
]#cd gcc4.0
]#./CreateModule
]#./install.sh
    
```

**3.2.3 Folder Information**

ngstardrv-1.0.3-1.tar.gz			
File name	Directory	Description	Attribute <sup>1)</sup>
ngstarlib.so	/lib	Device Driver library used in eNBSP SDK for Linux	755
ngstardrv.ko	/lib/modules/\$kernel-version/kernel/drivers/usb/misc/	NITGEN USB Fingkey Hamster II / II DX Driver Module	644
ngstardrv.h	/usr/include/linux/	Driver Module header	644
ngstardrv.conf	/etc/	Device configuration value	666
Device node	/dev/ngstar0 /dev/ngstar1 /dev/ngstar2 /dev/ngstar3 /dev/ngstar4 /dev/ngstar5 /dev/ngstar6 /dev/ngstar7	Create nodes for the device. Character device node.	666

<sup>1)</sup> Default attribute value

**3.3 NITGEN USB eNBioScan-F**

**3.3.1 Package File Name**

- nfrd05rfDrv-1.0.2-1.tar.gz : NITGEN USB eNBioScan-F(HFDU05/07) for Linux

**3.3.2 How to install**

```

]#tar -zxvf nfrd05rfDrv-1.0.2-1.tar.gz
]#cd nfrd05rfDrv-1.0.2-1
]#cd gcc4.0
]#./CreateModule05
]#./install.sh
    
```

**3.3.3 Folder Information**

nfrd05rfDrv-1.0.2-1.tar.gz			
File name	Directory	Description	Attribute <sup>1)</sup>
nfrd05rf.so	/lib	Device Driver library used in eNBSP SDK for Linux	755
nfrd05rf.ko	/lib/modules/\$kernel-version/kernel/drivers/usb/misc/	NITGEN USB eNBioScan-F Driver Module	644
nfrd05rf.h	/usr/include/linux/	Driver Module header	644
nfrd05rf.conf	/etc/	Device configuration value	666
Device node	/dev/nfrd050 /dev/nfrd051 /dev/nfrd052 /dev/nfrd053 /dev/nfrd054 /dev/nfrd055 /dev/nfrd056 /dev/nfrd057	Create nodes for the device. Character device node.	666

<sup>1)</sup> Default attribute value

**3.4 NITGEN USB eNBioScan-D**

**3.4.1 Package File Name**

- nfrd07rfDDrv-1.0.0-1.tar.gz : NITGEN USB eNBioScan-D(DFDU-500) for Linux

**3.4.2 How to install**

```

]#tar -zxvf nfrd07rfDDrv-1.0.0-1.tar.gz
]#cd nfrd07rfDDrv-1.0.0-1
]#cd gcc4.0
]#./CreateModule07D
]#./install.sh
    
```

**3.4.3 Folder Information**

nfrd07rfDDrv-1.0.0-1.tar.gz			
File name	Directory	Description	Attribute <sup>1)</sup>
nfrd07rfD.so	/lib	Device Driver library used in eNBSP SDK for Linux	755
nfrd07rfD.ko	/lib/modules/\$kernel-version/kernel/drivers/usb/misc/	NITGEN USB eNBioScan-D Driver Module	644
nfrd500Drv.h	/usr/include/linux/	Driver Module header	644
nfrd07rfD.conf	/etc/	Device configuration value	666
Device node	/dev/nfrd07D0 /dev/nfrd07D1 /dev/nfrd07D2 /dev/nfrd07D3 /dev/nfrd07D4 /dev/nfrd07D5 /dev/nfrd07D6 /dev/nfrd07D7	Create nodes for the device. Character device node.	666

<sup>1)</sup> Default attribute value



**3.5 NITGEN USB eNBioScan-C1**

**3.5.1 Package File Name**

- nfrd08c-1.0.0-1.tar.gz : NITGEN USB eNBioScan-C1(HFDU08) for Linux

**3.5.2 How to install**

```

]#tar -zxvf nfrd08c-1.0.0-1.tar.gz
]#cd nfrd08c-1.0.0-1
]#cd gcc4.0
]#./CreateModule08
]#./install.sh
    
```

**3.5.3 Folder Information**

nfrd08c-1.0.0-1.tar.gz			
File name	Directory	Description	Attribute <sup>1)</sup>
nfrd08c.so	/lib	Device Driver library used in eNBSP SDK for Linux	755
nfrd08c.ko	/lib/modules/\$kernel-version/kernel/drivers/usb/misc/	NITGEN USB eNBioScan-C1 Driver Module	644
nfrd08c.h	/usr/include/linux/	Driver Module header	644
nfrd08c.conf	/etc/	Device configuration value	666
Device node	/dev/nfrd08c0 /dev/nfrd08c1 /dev/nfrd08c2 /dev/nfrd08c3 /dev/nfrd08c4 /dev/nfrd08c5 /dev/nfrd08c6 /dev/nfrd08c7	Create nodes for the device. Character device node.	666

※ Attribute

Numeral	Character	Meaning
755	rwxr-xr-x	1. owner/group/other 2. r - read w - write x - execute
666	rw-rw-rw-	
644	rw-r--r--	

[End Of Doc]

<sup>1)</sup> Default attribute value