



GPD Report 20190617

GPD Users Group

Masafumi Ohta

Self-introduction

- Pocket 2 User - it is for XXXXXX 😊
- Help Japan GPD user community.



香港



Build Apps Faster
Open source workflow platform for work, mobile and IoT apps



My

24

My

FreeBSD

CC BY-SA

Lucidworks

Lucidworks
Intent. Relevancy. Context.
Search and discover with the power of AI



Stack of cards with a logo featuring a stylized 'S' and Chinese characters.

Stack of stickers featuring a yellow cat face and the text 'HKOSCON'.

Stack of cards with the text 'HONG KONG OPEN SOURCE CONFERENCE' and a logo.



岸區

MAINLAND PORT AREA

岸區

HONG KONG PORT AREA



あ

深圳市野生动物园

塘朗山郊野公园

笔架山公园

深圳儿童公园

罗湖区

深圳市

華強北

軟件產業基地 (4棟) 停車場

23分
17.1 km

19分
16.8 km

深圳大南山
改革开放
纪念公园

林村郊野公园
Lam Tsuen
Country Park



航空写真



LA JEN

天水圍
TIN SHUI WAI

新田
SAN TIN

米埔
MAI PO

上水
SHEUNG SHUI

羅湖
LO WU

深圳灣(后海灣)
后海灣(深圳灣)

北洲山

香蜜湖

沙河

粤海

南头

白石牌

前海湾

西乡

桃源

西丽

西丽

光明

新安

万悦国际酒店

布吉镇

东晓

布心路

翠竹

泥岗路

笋岗

清水河

梅林 梅林

华富

园岭

东门

南湖

黄贝

香園圍

桂园

罗湖

羅湖

角咀

粤海

后海

深圳湾口岸

招商

蛇口

蛇口

二湾

粉嶺
FAN LING

9

10

天水圍

TIN SHUI WAI



Tencent 腾讯



保利M+HUB

保利M+HUB

保利M+HUB

深圳市中软赢科技术有限公司

GPD

GamePad Digital

1006



GPD
GameFutal

The image shows two small, black, foldable micro-PCs. One is open, showing a keyboard and a screen. The other is closed, showing the back of the device with a logo. The background is a solid light gray.

Micro PC on Linux Update

20190617



may@may-Default-string: ~

```
may@may-Default-string:~$ xrandr --verbose
xrandr: Failed to get size of gamma for output default
Screen 0: minimum 720 x 1280, current 720 x 1280, maximum 720 x 1280
default connected primary 720x1280+0+0 (0x2ad) normal (normal) 60m x 0
PDP
```

```
Identifier: 0x2ac
Timestamp: 34203
Subpixel: unknown
Clones:
CRTC: 0
CRTCs: 0
```

```
Transform: 1.000000 0.000000 0.000000 0.000000
0.000000 1.000000 0.000000 0.000000
0.000000 0.000000 1.000000 1.000000
```

filter:

```
_MUTTER_PRESENTATION_OUTPUT: 0
non-desktop: 0
```

supported: 0, 1

```
720x1280 (0x2ad) 70.042MHz *current
```

```
h: width 720 start 0 end 0 total 720 skew 0 clock
97.28KHz
```

```
v: height 1280 start 0 end 0 total 1280 clock
```

76.00Hz

```
may@may-Default-string:~$
```




may@may-Default-string: ~



```
720x1280 (0x2ad) 70.042MHz *current
h: width 720 start 0 end 0 total 720 skew 0 clock
97.28KHz
v: height 1280 start 0 end 0 total 1280
76.00Hz
```

```
may@may-Default-string:~$ xrAND
```

```
xRAND: command not found
```

```
may@may-Default-string:~$
```

```
may@may-Default-string:~$ X
```

```
/usr/lib/xorg/Xorg.wrap: Only console users are allowed to run the X s
erver
```

```
may@may-Default-string:~$ xrandr -o right
```

```
X Error of failed request: BadMatch (invalid parameter attributes)
```

```
Major opcode of failed request: 140 (RANDR)
```

```
Minor opcode of failed request: 2 (RRSetScreenConfig)
```

```
Serial number of failed request: 14
```

```
Current serial number in output stream: 14
```

```
may@may-Default-string:~$ xrandr -o left
```

```
X Error of failed request: BadMatch (invalid parameter attributes)
```

```
Major opcode of failed request: 140 (RANDR)
```

```
Minor opcode of failed request: 2 (RRSetScreenConfig)
```

```
Serial number of failed request: 14
```

```
Current serial number in output stream: 14
```

```
may@may-Default-string:~$
```



```
# dmidecode 3.2
Getting SMBIOS data from sysfs.
SMBIOS 3.1.1 present.
```

```
Handle 0x0001, DMI type 1, 27 bytes
System Information
Manufacturer: Default string
Product Name: Default string
Version: Default string
Serial Number: Default string
UUID: 03000200-0400-0500-0006-000700080009
Wake-up Type: Power Switch
SKU Number: Default string
Family: Default string
```

```
> Manufacturer: GPD
  Product Name: P2 MAX
```



```

@@ -42,6 +42,14 @@ static const struct drm_dmi_panel_orientation_data asus_t100ha = {
    .orientation = DRM_MODE_PANEL_ORIENTATION_LEFT_UP,
};

+static const struct drm_dmi_panel_orientation_data gpd_micropc = {
+    .width = 720,
+    .height = 1280,
+    .bios_dates = (const char * const []){ "04/26/2019",
+        NULL },
+    .orientation = DRM_MODE_PANEL_ORIENTATION_RIGHT_UP,
+};
+
+static const struct drm_dmi_panel_orientation_data gpd_pocket = {
    .width = 1200,
    .height = 1920,
@@ -107,6 +115,14 @@ static const struct dmi_system_id orientation_data[] = {
    DMI_EXACT_MATCH(DMI_PRODUCT_NAME, "T100HAN"),
    },
    .driver_data = (void *)&asus_t100ha,
+    }, { /* GPD MicroPC (generic strings, also match on bios date) */
+    .matches = {
+        DMI_EXACT_MATCH(DMI_SYS_VENDOR, "Default string"),
+        DMI_EXACT_MATCH(DMI_PRODUCT_NAME, "Default string"),
+        DMI_EXACT_MATCH(DMI_BOARD_VENDOR, "Default string"),
+        DMI_EXACT_MATCH(DMI_BOARD_NAME, "Default string"),
+    },
+    .driver_data = (void *)&gpd_micropc,
+    }, { /*
+        * GPD Pocket, note that the the DMI data is less generic then
+        * it seems, devices with a board-vendor of "AMI Corporation"

```

***http://bit.ly/drm_panel_orientation_quirks_c**



```

@@ -90,6 +90,12 @@ static const struct drm_dmi_panel_orientation_data itworks_tw891 =
{
    .orientation = DRM_MODE_PANEL_ORIENTATION_RIGHT_UP,
};

+static const struct drm_dmi_panel_orientation_data lcd720x1280_rightside_up = {
+    .width = 720,
+    .height = 1280,
+    .orientation = DRM_MODE_PANEL_ORIENTATION_RIGHT_UP,
+};
+
static const struct drm_dmi_panel_orientation_data lcd800x1280_rightside_up = {
    .width = 800,
    .height = 1280,
@@ -123,6 +129,12 @@ static const struct dmi_system_id orientation_data[] = {
    DMI_EXACT_MATCH(DMI_BOARD_NAME, "Default string"),
    },
    .driver_data = (void *)&gpd_micropc,
+    }, {
+    /* GPD MicroPC (later BIOS versions with proper DMI strings) */
+    .matches = {
+    DMI_EXACT_MATCH(DMI_SYS_VENDOR, "GPD"),
+    DMI_EXACT_MATCH(DMI_PRODUCT_NAME, "MicroPC"),
+    },
+    .driver_data = (void *)&lcd720x1280_rightside_up,
+    }, {
+    /*
+    * GPD Pocket, note that the the DMI data is less generic then
+    * it seems, devices with a board-vendor of "AMI Corporation"

```

<https://patchwork.freedesktop.org/patch/313782/raw/>

A top-down view of a person's hands typing on a laptop keyboard. The laptop screen is open and displays the Windows logo. The text 'P2 Max on Linux Update' is overlaid in white on the keyboard area.

P2 Max on Linux Update

20190617

Apr 26 17:36

Activities Cheese

Take a Photo

- ubuntu
- Install Ubuntu 19.04
- Trash
- Firefox
- Nautilus
- Terminal
- LibreOffice Writer
- LibreOffice Calc
- LibreOffice Impress
- LibreOffice Draw
- LibreOffice Base
- LibreOffice Math
- LibreOffice Remote Desktop
- LibreOffice Mail Merge
- LibreOffice Presentation
- LibreOffice Writer
- LibreOffice Calc
- LibreOffice Impress
- LibreOffice Draw
- LibreOffice Base
- LibreOffice Math
- LibreOffice Remote Desktop
- LibreOffice Mail Merge
- LibreOffice Presentation



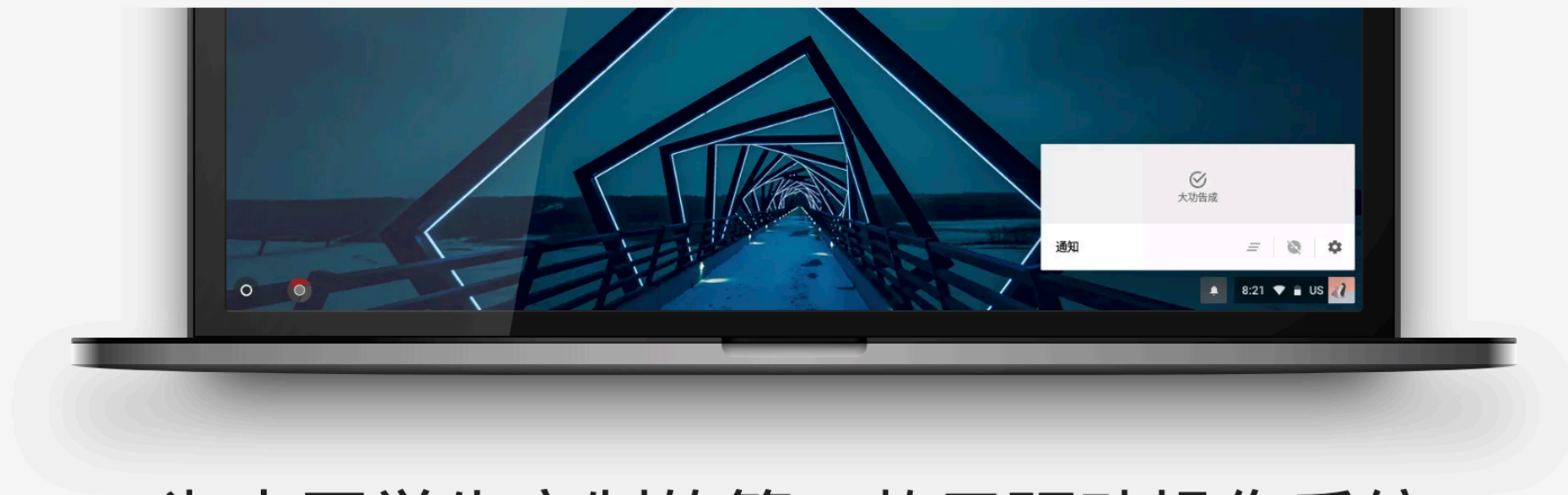
Photo

Video

Burst

effects

*'The following information has been added to the new version of BIOS
Manufacturer: GPD
Product Name: P2 MAX'*



为中国学生定制的第一款云驱动操作系统

FydeOS（原名 Flint OS，于 2018 年 6 月正式更名）基于驱动 Chrome OS 及谷歌浏览器的开源项目二次开发，融合自主专利技术，继承 Chrome OS 所有特性，适配更多硬件品类，为中国学生而定制的本土化修改。

- 极速响应永不变慢
- 在一个 OS 平台上更好地运行网页程序 + 安卓程序 + Windows 程序 + Linux 程序
- 账号数据云同步
- 操作简单，安全稳定

```
// SPDX-License-Identifier: GPL-2.0-only
/*
 * Driver for Goodix Touchscreens
 *
 * Copyright (c) 2014 Red Hat Inc.
 * Copyright (c) 2015 K. Merker <merker@debian.org>
 *
 * This code is based on gt9xx.c authored by andrew@goodix.com:
 *
 * 2010 - 2012 Goodix Technology.
 */
(&snip)
static const struct goodix_chip_data *goodix_get_chip_data(u16 id)
{
    switch (id) {
        case 1151:
        case 5663:
        case 5688:
            return &gt1x_chip_data;

        case 911:
        case 9271:
        case 9110:
        case 927:
        case 928:
            return &gt911_chip_data;

        case 912:
        case 967:
            return &gt967_chip_data;

        default:
            return &gt9x_chip_data;
    }
}
```

```
(&snip)
MODULE_DEVICE_TABLE(acpi, goodix_acpi_match);
#endif

#ifdef CONFIG_OF
static const struct of_device_id goodix_of_match[] = {
    { .compatible = "goodix,gt1151" },
    { .compatible = "goodix,gt5663" },
    { .compatible = "goodix,gt5688" },
    { .compatible = "goodix,gt911" },
    { .compatible = "goodix,gt9110" },
    { .compatible = "goodix,gt912" },
    { .compatible = "goodix,gt927" },
    { .compatible = "goodix,gt9271" },
    { .compatible = "goodix,gt928" },
    { .compatible = "goodix,gt967" },
    {}
};
MODULE_DEVICE_TABLE(of, goodix_of_match);
#endif
```

***http://bit.ly/goodix_c**

Other Updates



GPD Win2 updating 8100Y version

- 1. CPU upgraded
- 2. Heat dissipation improved.
- 3. Raised the speed of SD card writing and reading
- 4. Support 5V charge
- 5. Improved the audio, add independent power amplifier IC



Thanks,

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tweet @masafumiohta

Special Thanks: Shibata-san of Ubuntu JP team