iSite BTS3001C-116V100R001

LOG OUTPUT

Issue **01**

Date **2018-03-16**

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About This Document

Purpose

This document describes the networking and protection of SDH, PDH, Ethernet, ATM, SAN and video services. In addition, network management information, orderwire and clock planning is described briefly.
This document provides guides to get the information about how to construct a network.

Intended Audience

This document is intended for:

- Policy planning engineers
- Installation and commissioning engineers
- NM configuration engineers
- Technical support engineers

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
 DANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
 CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
 NOTICE	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results. NOTICE is used to address practices not related to personal injury.

Symbol	Description
NOTE	Calls attention to important information, best practices and tips. NOTE is used to address information not related to personal injury, equipment damage, and environment deterioration.

Change History

Changes between document issues are cumulative. The latest document issue contains all the changes made in earlier issues.

Issue 01 (2018-03-16)

This issue is used for first office application (FOA).

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Figures

Tables

1 Description

1.1 LOG OUTPUT

1.1.1 General description

The Hikey970 log covers the startup phase, the runtime phase, and the exception log, which is output from the UART6 port by default, and the port definition of the startup phase is configured in the code to configure the port configuration of the Linux phase through the cmdline parameter.

1.1.2 Port of configuration

1.1.2.1 arm-trusted-firmware

plat/hisilicon/hikey970/include/hisi_regs.h

```
#define PL011_UART6_BASE        0xFFF32000
```

1.1.2.2 OpenPlatformPkg

Platforms/Hisilicon/HiKey970/ HiKey970.dsc

```
## PL011 - Serial Terminal

DEFINE SERIAL_BASE = 0xFFF32000

gEfiMdeModulePkgTokenSpaceGuid.PcdSerialRegisterBase|$(SERIAL_BASE)

gEfiMdePkgTokenSpaceGuid.PcdUartDefaultBaudRate|115200

gArmPlatformTokenSpaceGuid.PL011UartInteger|10

gArmPlatformTokenSpaceGuid.PL011UartFractional|26



## PL011 - Serial Debug UART

gArmPlatformTokenSpaceGuid.PcdSerialDbgRegisterBase|$(SERIAL_BASE)

gArmPlatformTokenSpaceGuid.PcdSerialDbgUartClkInHz|19200000

gArmPlatformTokenSpaceGuid.PcdSerialDbgUartBaudRate|115200
```

1.1.2.3 Linux

The UEFI phase is passed to the kernel by configuring the cmdline parameter, as follows:

Platforms/Hisilicon/HiKey970/HiKey970Dxe/HiKey970Dxe.c

```
  UnicodeSPrint (

    Args + StrLen (Args), Size - StrLen (Args),

    L" earlycon=pl011,0xfff32000,115200 console=ttyAMA6
androidboot.serialno=%s clk_ignore_unused=true",

    RandomSN->UnicodeSN

);
```

1.1.3 Log Acquisition

1.1.3.1 Booting, Kernel Logging

The Hikey970 UART6 is converted to type-c via USB, and the connection to the PC is recognized as a serial device:

You can get the startup and kernel run log after booting up when turned on with a serial port tool,

1.1.3.2 Android Logging

Adb shell logcat is available on the command line after Android starts.
C:\Users\admin>adb shell logcat > E:\ Android.txt

1.1.3.3 Exception Logs

C:\Users\ admin >adb shell
hikey970:/ $ cd sys/fs/pstore/
hikey970:/sys/fs/pstore $
hikey970:/sys/fs/pstore $ ls
console-ramoops-0 dmesg-ramoops-0 dmesg-ramoops-1
hikey970:/sys/fs/pstore $ exit
C:\Users\admin>
C:\Users\admin>adb pull /sys/fs/pstore/console-ramoops-0 E:\ admin \pstore
/sys/fs/pstore/console-ramoops-0: 1 fi...led. 4.0 MB/s (131060 bytes in 0.031s)
C:\Users\admin>