SIM7600 Series_HSIC_LAN_Application Note

LTE Module
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<tr>
<td>V2.00</td>
<td>2020.8.6</td>
<td>Yuanzhi.Sun</td>
<td>Update document format</td>
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1. Introduction

1.1 Purpose of the document

Based on module AT command manual, this document will introduce HSIC_LAN application process. Developers could understand and develop application quickly and efficiently based on this document.

1.2 Related documents


1.3 Conventions and abbreviations

In this document, the GSM engines are referred to as following term:
ME (Mobile Equipment);
MS (Mobile Station);
TA (Terminal Adapter);
DCE (Data Communication Equipment) or facsimile DCE (FAX modem, FAX board);

In application, controlling device controls the GSM engine by sending AT Command via its serial interface. The controlling device at the other end of the serial line is referred to as following term:
TE (Terminal Equipment);
DTE (Data Terminal Equipment) or plainly "the application" which is running on an embedded system;
2. HSIC_LAN Introduction

2.1 LAN9730 Introduction

Customer can get useful information about SIM7600 HSIC-LAN function quickly through this document. The function could easily be realized by AT command interface provided in SIM7600 series module via USB interface.

LAN9730 overview:
- Single Chip HSIC USB 2.0 to 10/100 Ethernet Controller
- Integrated 10/100 Ethernet MAC with Full-Duplex Support
- Integrated 10/100 Ethernet PHY with HP Auto MDIX Support
- Integrated USB 2.0 Hi-Speed Device Controller
- Integrated HSIC Interface
- Implements Reduced Power Operating Modes

SIM7600 use hsic interface to connect with LAN9730. Customer can use it to get network. There are three modes supported. LAN mode static ip mode, Wan mode and. Customer can use AT command to change the mode.

2.2 Work Mode Introduction

- **lan mode:**
  SIM7600 assign ip address to PC.

- **wan mode:**
  SIM7600 obtain ip address by dhcp client through HSIC LAN.
- static ip mode:
  SIM7600 with no dhcp server or client. Need set static ip.
3. AT Commands for HSIC_LAN

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<td>AT+CENABLELAN</td>
<td>Enable the LAN</td>
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<tr>
<td>AT+CLANMODE</td>
<td>Set LAN mode Configure</td>
</tr>
<tr>
<td>AT+CLANCTRL</td>
<td>Set LAN control Configure</td>
</tr>
<tr>
<td>AT+CHSICSLEEP</td>
<td>Allow HSIC device go to auto sleep</td>
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For detail information, please refer to “SIM7600 Series_AT Command Manual_V1.03 “.