《Operation Manual of WLAN Module》

VER：	V2.0
Product name：	Network Module For Conference Display
Model No.	AZ820-HN

Fictioner ： Liu Zhi Yong

Checker ： Zhang Chao Bing
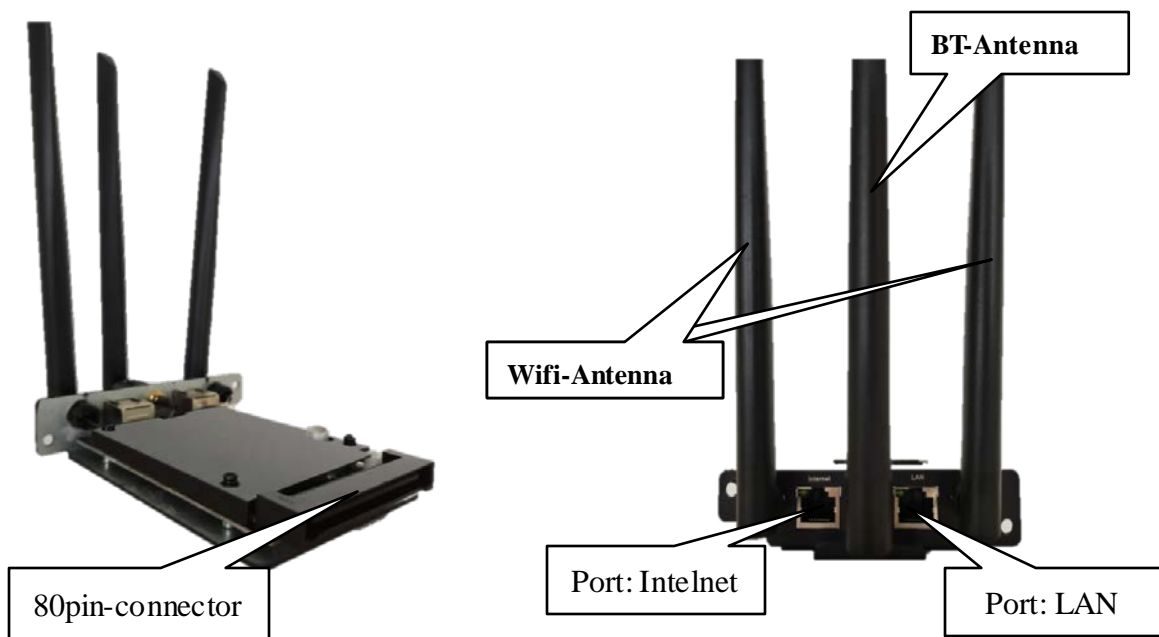
Approver ： Zeng Xiang Long、Tan Yi

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Product Description

The product described in this document is the basic information of network module hardware, and the unified model name of network module is AZ820-HN. This module mainly establishes the network foundation for the large screen customer environment of commercial display. The products respectively support wired and wireless wan to realize data access to the external network, and provide high-speed and stable wireless hot spots to meet the terminal wireless internet access and business needs.

Basic information of network module products

**1、** Hardware interface and function

Port Name	Function Explain
80pin-connector	It is mainly connected with Android main board through 80pin-connector to realize module power supply (voltage 12V). At the same time, it integrates three LAN ports to realize LAN data transmission
Port: Intelnet	One support 10 \ 100 \ 1000m Ethernet port, realize WAN port data access function
Port: LAN	One support 10 \ 100 \ 1000m Ethernet port, realize LAN port data access function
Wifi-Antenna	Support 2.4 G & 5 G radio frequency signal output, the biggest gain WiFi 2.4GHz:4.67dBi WiFi 5GHz: 5.67 dbi; As a wireless hotspot, the product provides wireless access / transmission services for terminal equipment;2 * 2 MIMO antenna with the highest link rate of 867mbps
BT-Antenna	Support bluetooth RF signal output, maximum gain of 5.13dBi;

Product block diagram description

1. **The product is a plug - in network module, dedicated for honghe commercial display large screen. The power supply and outage of the module are provided by the internal power bus of the display screen.**
2. **The product is a plug - in network module, dedicated for honghe commercial display large screen. The rf antenna of the product module is divided into two external antennas, WIFI and Bluetooth, two WIFI and one Bluetooth antenna. The antenna is an integral and non-detachable structure.**

Built in diagram of network module：
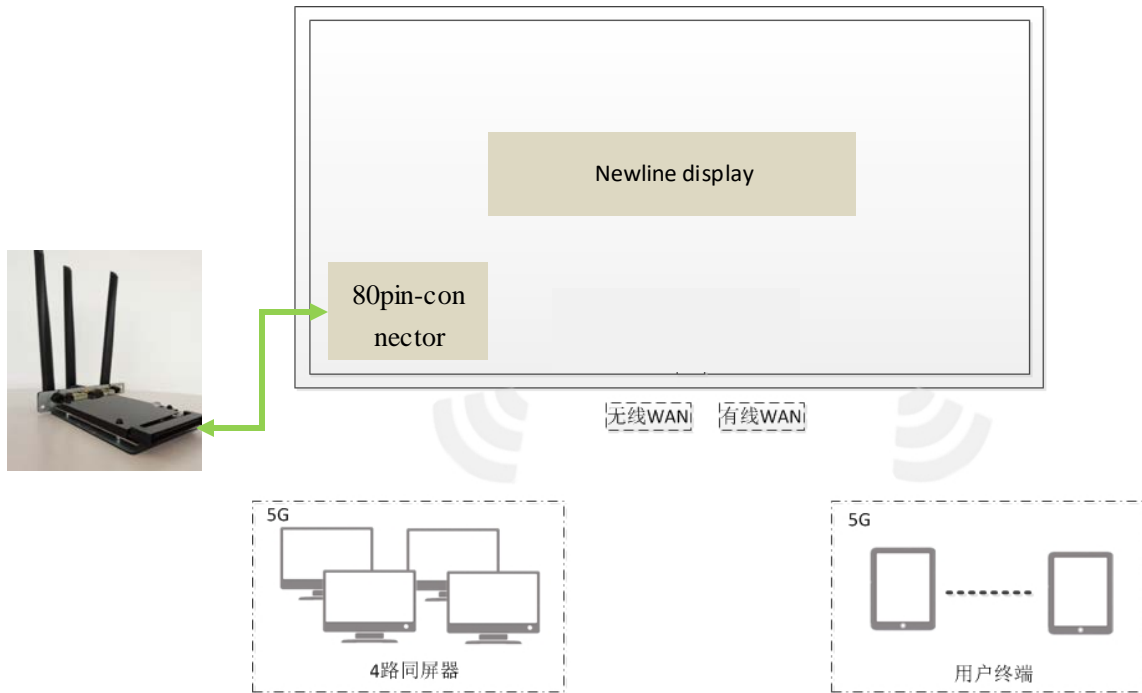
FCC Notice:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

---Reorient or relocate the receiving antenna.
---Increase the separation between the equipment and receiver.

---Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

---Consult the dealer or an experienced radio/TV technician for help.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure

The equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with minimum distance 20cm between the radiator & your body.

Information that must be placed in the end user manual:
The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module. The end user manual shall include all required regulatory information/warning as show in this manual.

Important Note:
This modular transmitter is only FCC authorized for FCC Part 15.247&15.407 as listed on the grant, and the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. The final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

End Product Labeling
If the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: Contains Transmitter Module FCC ID: 2ACYT-AZ820

OEM integration instructions:
This device is intended only for OEM integrators under the following conditions:
The transmitter module may not be co-located with any other transmitter or antenna. The module shall be only used with the external antenna(s) that has been originally tested and certified with this module.
As long as the conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

Validity of using the module certification:
In the event that these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization for this module in combination with the host equipment is no longer considered valid and the FCC ID of the module cannot be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.