TS-MT7620AVIV

Network Module

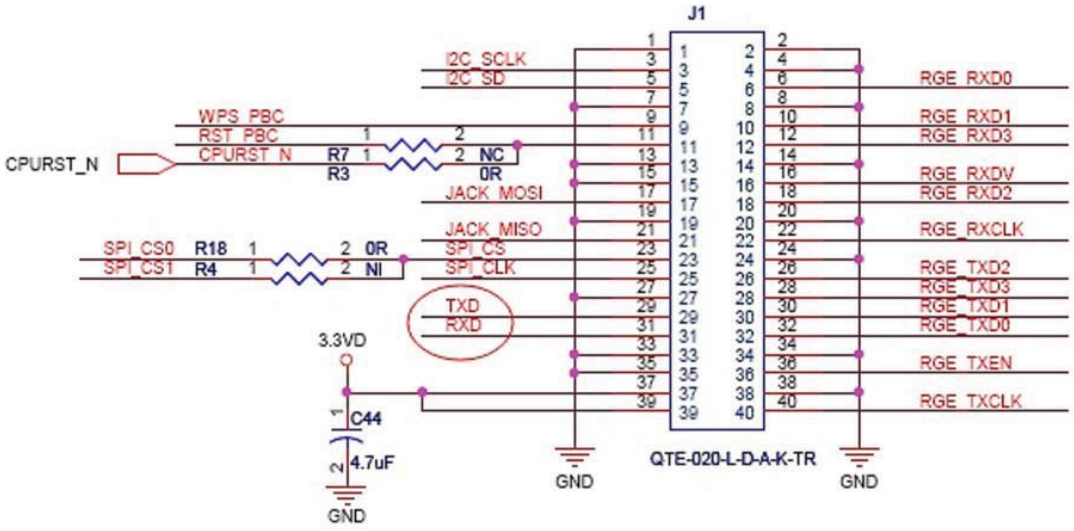
- **Model no. TS-MT7620AVIV (Ver 1.0)**

July, 2015

I Product Specification

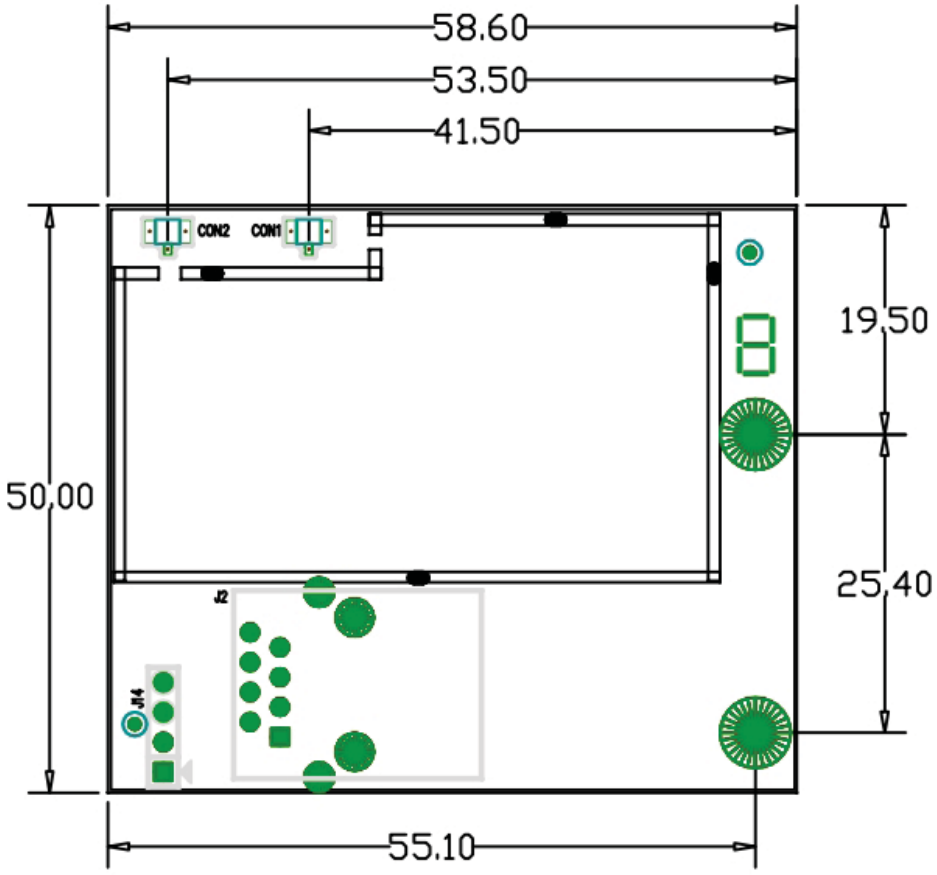
Standard	IEEE802.11b, 802.11g, IEEE802.11n
Data Rate	11n: up to 300Mbps (dynamic adjust) 11g: up to 54Mbps (dynamic adjust) 11b: up to 11Mbps (dynamic adjust)
Receiver Sensitivity	300M: -62dBm@10% PER 54M: -68dBm@10% PER 11M: -81dBm@8% PER
Transmit power	11b:21±1dbm 11g:19±1dbm 11n H20:18±1dbm ;11n H40:16±1dbm
External interface and indicator light	**External interface**
	1*10/100Base-TX Ethernet Port
	1*SPI
	1*I2C
	2*UART
	1*RGMII.
	Indicator
	1* LAN indicator LED
Antenna situation	2*IPEX
Management type	Local/Remote Web-based configuration
Operating Temperature	0℃ ~ +50℃
Storage	-20℃ ~ +70℃
Humidity	5 ~ 95% non-condensing
Power input	DC 3.3V ±0.3V 0.7A(Max)

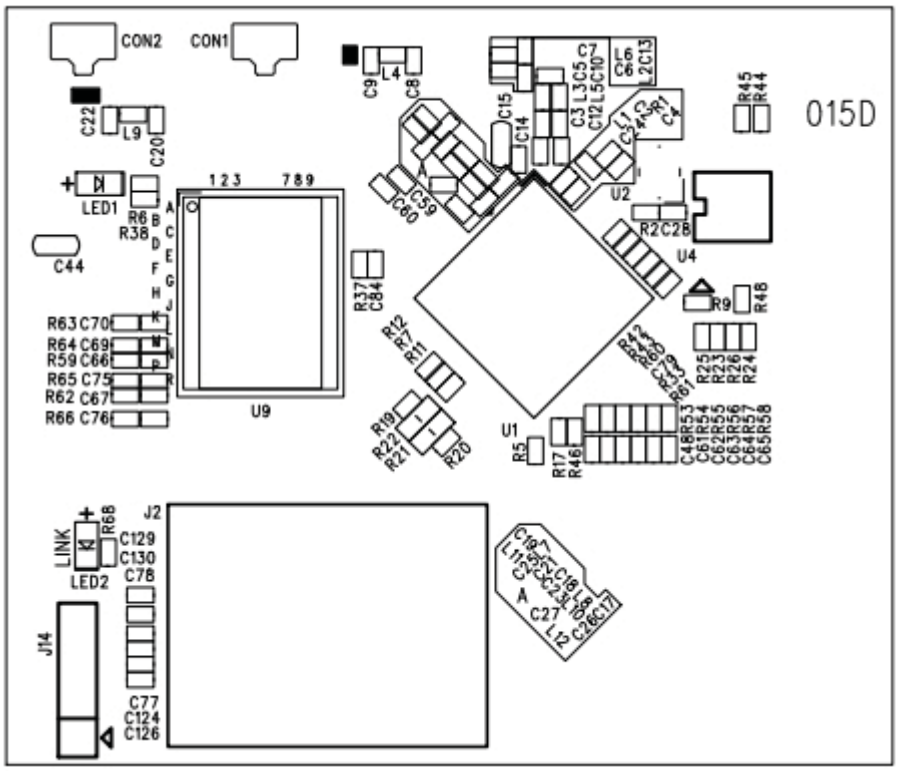
II Connector PIN Define

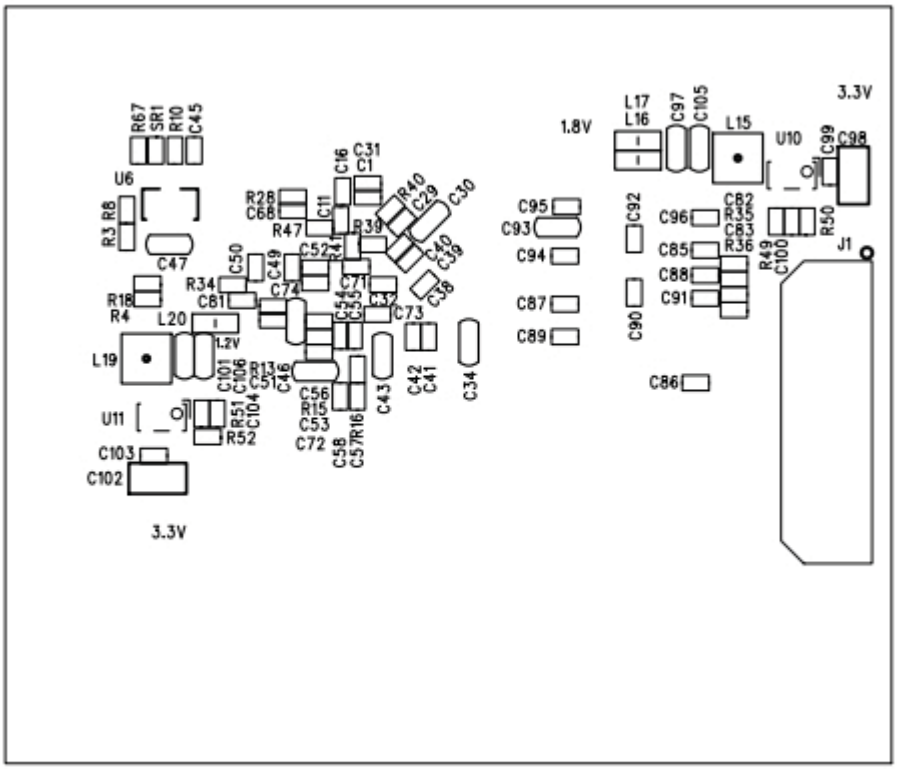


PIN	Pin Define	Function Describe	PIN	Pin Define	Function Describe
1	GND	Ground	2	GND	Ground
3	I2C_SCLK	I2C Clock	4	GND	Ground
5	I2C_SDA	I2C Data	6	RGE_RXD0	RGMII RX Data Bit 0
7	GND	Ground	8	GND	Ground
9	GPIO12	GPIO	10	RGE_RXD1	RGMII RX Data Bit 1
11	CPURST_N	CPU Reset(Active Low)	12	RGE_RXD3	RGMII RX Data Bit 3
13	GND	Ground	14	GND	Ground
15	GND	Ground	16	RGE_RXDV	RGMII RX Data Valid
17	SPI_MISO	Master Input/Slave Output	18	RGE_RXD2	RGMII RX Data Bit 2
19	GND	Ground	20	GND	Ground
21	SPI_MOSI	Master Output/Slave Input	22	RGE_RXCLK	RGMII RX Clock
23	SPI_CS0	SPI Chip Select 0	24	GND	Ground
25	SPI_CLK	SPI Clock	26	RGE_TXD2	RGMII TX Data Bit 2
27	GND	Ground	28	RGE_TXD3	RGMII TX Data Bit 3
29	TXD1	UART1 TXD	30	RGE_TXD1	RGMII TX Data Bit 1
31	RXD1	UART1 RXD	32	RGE_TXD0	RGMII TX Data Bit 0
33	GND	Ground	34	GND	Ground
35	GND	Ground	36	RGE_TXEN	RGMII TX Enable
37	+3.3V	+3.3V Power Supply	38	GND	Ground
39	+3.3V	+3.3V Power Supply	40	RGE_TXCLK	RGMII TX Clock

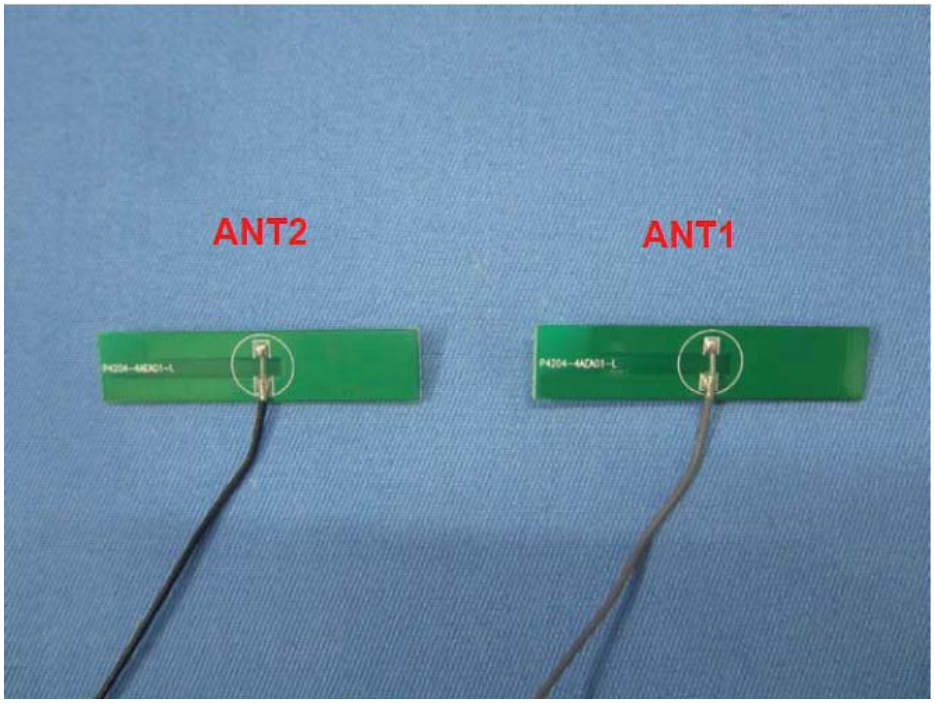
III Mechanical Drawing







IV External Antennas



1. Antenna 1: ANTENNA PCB SINGLE BAND W/I-PEX CABLE ASSY 286MM
   PULSE #W3525B81 ANTENNA gain 2dBi
2. Antenna 2:ANTENNA PCB SINGLE BAND W/I-PEX CABLE ASSY 384MM
   PULSE #W3525B384 ANTENNA gain 2dBi

FCC Statement

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.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

Regulatory Information

The devices must be installed and used in strict accordance with the instructions as described in the user documentation that comes with the product.

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: YVK-MT7620AVIV”

When the module is installed inside another device, the user manual of this device must contain below warning statements:
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, and (2) This device must accept any interference received, including interference that may cause undesired operation.

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

This modular could be installed in the fix or mobile devices only, installed in the portable device, like USB dongle is forbidden. This modular complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This modular must be installed and operated with a minimum distance of 20 cm between the radiator and user body.

For manufacturer:

The end product into which the module will be installed should be the fix or mobile devices only, the portable device, like USB dongle is forbidden.

The end product into which the module will be installed should be installed and operated with a minimum distance of 20 cm between the radiator and user body.