

LITE-ON TECH. CORP.

PRODUCT SPECIFICATION

WHDI Transmitter Stick

WV400A

Amimon AMN2120 + MAXIM MAX2850

Version 1.1

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Change History:

Revision	Date	Author	Change List
Draft	2011/01/05	Kenny Su	Preliminary
Version 1.0	2011/05/18	Kenny Su	1.Revise LED Behavior 2.Add PCBA Mechanical
Version 1.1	2011/08/23	Kenny Su	Revise product feature

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(Please Sign Back by FAX. For Confirming the Spec Only, not an Official Agreement for OEM/ODM Business)

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PRODUCT FEATURES

- World band frequency 5150~5250;5725~5850MHz operation
- Coexists with 802.11a/n and 5.8GHz cordless devices
- 128/256-bit AES based encryption
- Supports 20 and 40 MHz channels for supreme video quality and high rate video/audio Signals
- WHDI 1.0 compliance, including HDCP 2.0
- Support HDMI 1.4a video format and HDCP 1.2 with video encryption.
- Supports any uncompressed video resolutions with a pixel clock rate of up to 162 MHz, including:
 - **HD:** 480p, 576p, 720p, 1080i, 1080p
 - **PC:** VGA (640x480), SVGA (800x600), XGA (1024x768), UGA(1600x1200)
 - **Panel:** 854x800, 1280x768, 1366x768, 1920x1080
- Uncompressed streaming of HD video and audio up to 10 meters(No walls)
- Less than 1mSec latency between video source and video sink
- Static Video Recognition
- High Definition Interface:
 - 36-bit RGB or YCrCb (4:4:4)
 - Enables the support of non-standard resolutions
- Audio:
 - Up to 18 Mbps throughput of audio stream
 - I²S: Up to eight PCM channels
 - SPDIF: Including AC-3, DTS HD, Dolby 5.1, Digital
- RoHS

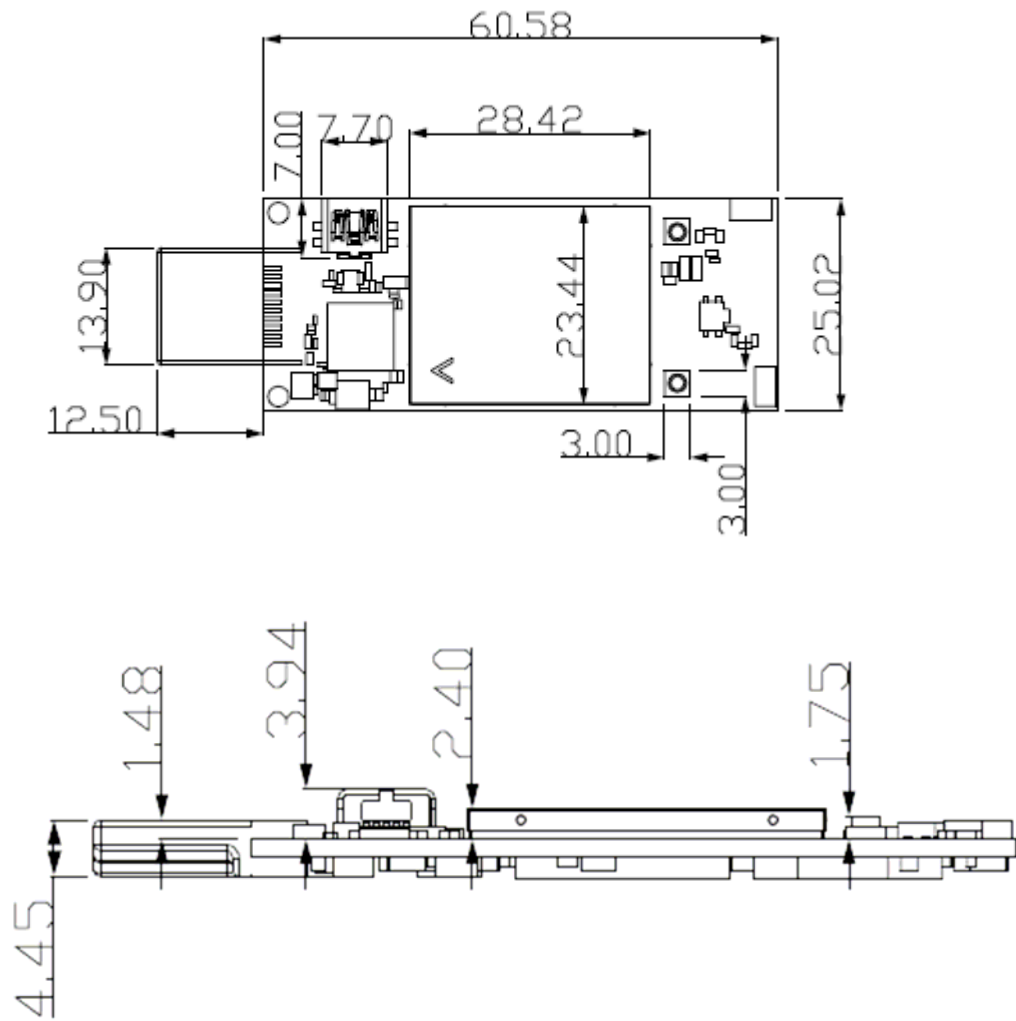
MAIN CHIPSET

Amimon AMN2120 + Maxim MAX2850

FUNCTIONAL SPECIFICATIONS

WHDI Function	
Standard	WHDI 1.0
Bus Interface	HDMI
Data Rate	20MHz DL (Tx to Rx): 31.5 Mbps 40MHz DL (Tx to Rx): 63 Mbps
Modulation Scheme	Uses 18MHz or 40Mhz bandwidth and is carried over the 5GHz unlicensed band
Frequency Range	5150~5250; 5725~5850MHz
Operating Voltage	5 V \pm 5% supply voltage
Security	128/256-bit AES based encryption
Power Consumption	2.5Watt – 1080P 2.1Watt – 720P Up to 2.7 Watt
Antenna Type	Two chip antennas (One for downlink transmission only and one which is switched between downlink transmission and uplink reception)

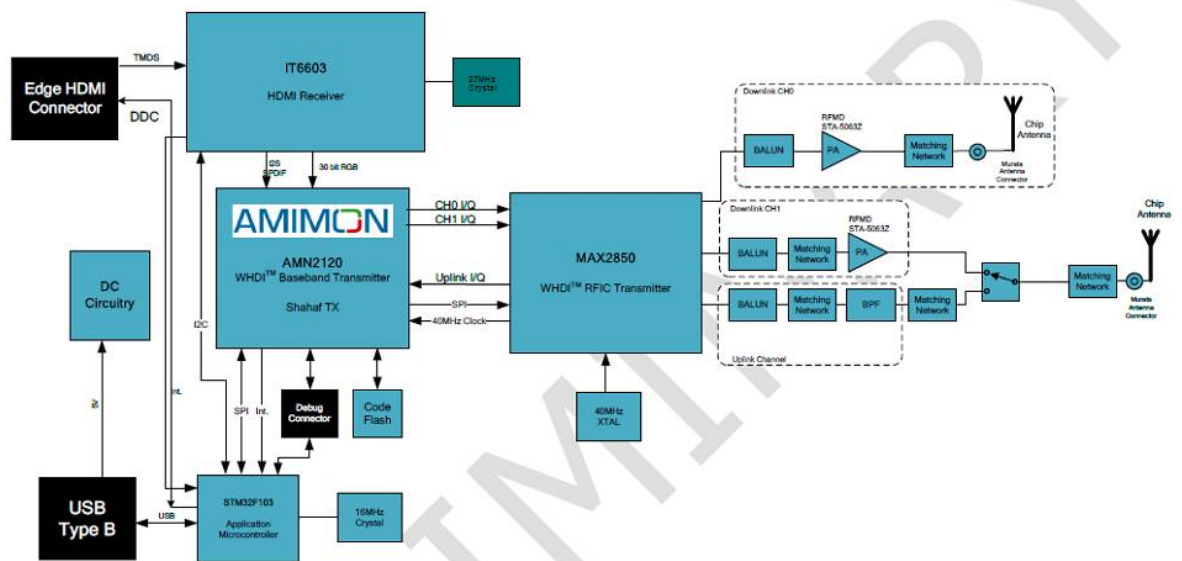
PCBA MECHANICAL



LED BEHAVIOR

Indication	Function
Video connection established	On
Power Off / No video input	Off

BLOCK DIAGRAM



ENVIRONMENTAL

Operating

Operating Temperature: 10-35°C ambient in still air (outside of case)

Relative Humidity: 5-90% (non-condensing)

Storage

Temperature: -20 to 70 °C

Relevant Humidity: 5-95% (non-condensing)

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE 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.

CAUTION:

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

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.

RF exposure warning

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated in accordance with provided instructions and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

Canada, Industry Canada (IC) Notices

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

Canada's REL (Radio Equipment List) can be found at the following web address:

<http://www.ic.gc.ca/app/sitt/reitel/srch/nwRdSrch.do?lang=eng>

Additional Canadian information on RF exposure also can be found at the following web address: <http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08792.html>

Canada, avis d'Industry Canada (IC)

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003 et RSS-210.

Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil de sans fil Dell est inférieure à la limite d'exposition aux fréquences radio d'Industry Canada (IC). Utilisez l'appareil de sans fil Dell de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce périphérique est homologué pour l'utilisation au Canada. Pour consulter l'entrée correspondant à l'appareil dans la liste d'équipement radio (REL - Radio Equipment List) d'Industry Canada rendez-vous sur:

<http://www.ic.gc.ca/app/sitt/reitel/srch/nwRdSrch.do?lang=eng>

Pour des informations supplémentaires concernant l'exposition aux RF au Canada rendez-vous sur : <http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08792.html>

Information for the OEMs and Integrators

The following statement must be included with all versions of this document supplied to an OEM or integrator, but should not be distributed to the end user.

This device is intended for OEM integrators only.

Please See the full Grant of Equipment document for other restrictions.

This device must be operated and used with a locally approved access point.

This device is operation in 5.15 – 5.25GHz frequency range, then restricted in indoor use only.

Outdoor operations in the 5150~5250MHz is prohibit.

End Product Labeling

Information to Be Supplied to the End User by the OEM or Integrator

The following regulatory and safety notices must be published in documentation supplied to the end user of the product or system incorporating an adapter in compliance with local regulations.

The final end product must be labeled in a visible area with the following:

"Contains FCC ID: PPQ-WV400A "and "Contains IC:4491A-WV400A"