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ijirset@gmail.com

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A Study on Smart Android TV

Mandar Jadhav¹, Dipti Patil², Monali Patil³

U.G. Student, Department of Electronics & Telecommunication Engineering, Shivajirao S. Jondhle College of Engineering & Technology, Asangaon, Maharashtra, India^{1,2}

Associate Professor, Department of Electronics & Telecommunication Engineering, Shivajirao S. Jondhle College of Engineering & Technology, Asangaon, Maharashtra, India³

ABSTRACT : Everyone among the globe of technology buying good tv however by the outer body stunning screen inches and show quality however they get fascinated with the outer body and look however no one thinks of the inner body, that is the technology the key of all beauty. This project offers the essential plan of a replacement technology introduced in TV .(i.e good Television) that makes the earth even smarter. The main advantage of a smart TV is access to sizable quantity of channels that give TV program , movies and music while not the need to connect a tv to the antenna or subscribe a cable/satellite service. conjointly some good TVs give internet browsing, gambling and access to compatible media content hold on on your laptop. The good automaton TV, this subject we've choosen for our project topic to grasp concerning this new technology, however it truly works and also the approach it builds up throughout this project, we have a tendency to ar reproducing a smart TV by victimisation recent TV and through this project we have a tendency to ar fixing our own school emblem as.

I. INTRODUCTION

A smart TV uses your home network to provide streaming video and services on your TV, and good TVs use wired local area network and inherent Wi-Fi to stay connected. Most current TVs support 802.11ac Wi-Fi, however look older models, which may still use the older 802.11n customary. we've got a guide to optimizing your home Wi-Fi for streaming, whether or not it's adjusting your router placement, tweaking settings or just selecting a wired association. People with larger homes ought to conjointly ascertain their Wi-Fi coverage. If the Wi-Fi router is on the second floor and thus the good TV is among the basement, for example, the set won't be able to stream video from Netflix or alternative suppliers while not experiencing hiccups. moreover, in our testing, most Wi-Fi receivers in TVs weren't as sensitive as those in set-top boxes, like Roku (more concerning set-top boxes in an exceedingly bit).

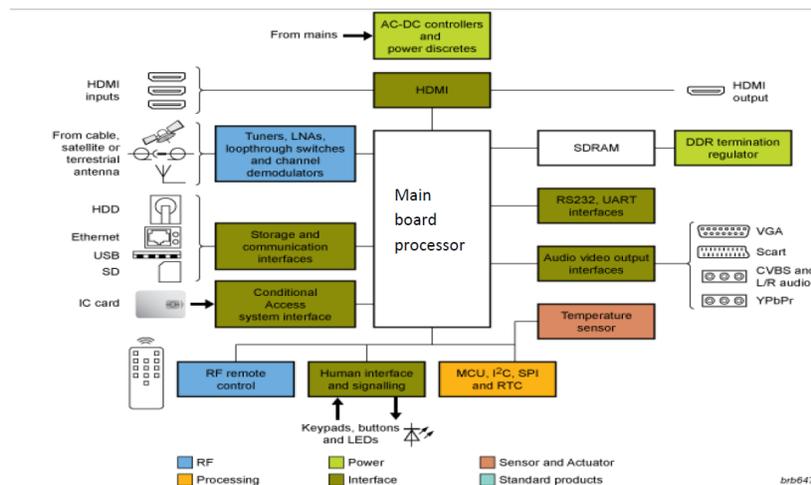
II LITERATURE SURVEY

A liquid-crystal show (LCD) may even be a flat-panel show or alternative electronically modulated device that uses the light-modulating properties of liquid crystals. Liquid crystals do not emit light-weight directly, instead using a backlight or reflector to supply pictures in color or monochrome. LCDs ar offered to show whimsical pictures (as throughout a all-purpose laptop display) or mounted pictures with low data content, which may be displayed or hidden, like predetermined words, digits, and seven-segment displays, as throughout a digital clock. They use the same basic technology, except that whimsical pictures ar made up of several tiny pixels, whereas alternative displays have larger parts Wireless management units (systems) LIGHT EMITTING DIODE [LED] Light-emitting diodes (LEDs) came into existence in 1962 and were primarily red in color for the primary decade. 1st} sensible LED was fictitious by Nick Holonyak in 1962 whereas he was at General ElectricThe first sensible LED show was developed at Hewlett-Packard (HP) and introduced in 1968. PLASMA show Plasma display board (PDP) may even be a form of flat panel show that uses tiny cells containing plasma; ionized gas that responds to electrical fields. till concerning 2007, plasma displays were unremarkably utilised in larger televisions (30 inches (76 cm) and larger). Since then, they have lost nearly all market share because of competition from low coLCDs and costlier however high-contrast OLED flat-panel displays. producing of plasma displays for the U.S. retail market LED to

2014, and producing for the Chinese market LED to 2016. A panel of a plasma show generally contains many small compartments in between 2 panels of glass. These compartments, or "bulbs" or "cells", hold a mix of noble gases and a minuscule quantity of other gas.

II. PROPOSED METHODOLOGY

The main advantage of a wise TV is access to associate oversize range of channels that give TV programs, movies, and music while not the requirement to attach a TV antenna or subscribe a cable/satellite service. Also, some good TVs give internet browsing, gaming, and access to compatible media content hold on on your laptop. Although good TVs can also receive TV programming via antenna or cable/satellite, Vizio has truly taken the daring step of eliminating inherent tuners associated antenna/cable connections on most of its sets in favor of its inherent streaming platform as an broad replacement. In addition to net streaming, some good TVs give a lot of capabilities, like Miracast and Screen Sharing, that change users to appear at content from compatible smartphones and tablets on a TV screen. alternative labels for this feature embody good Share (LG) and SmartView (Samsung). Some good TVs ar even ready to do the reverse: send content from the TV to a compatible smartphone. when causing, the user will still read that content on the smartphone, far from the TV. The promotion close good TVs is compelling, however there ar some value concerns and limitations to believe . though good TV platforms give access to many free channels and services, several need either a monthly subscription or pay-per-view fee. once you begin adding up those prices, you'll end up defrayment the utmost quantity , or more, than a monthly cable/satellite bill. On the opposite hand, you'll be paying just for the channels and content you want . The brand/model good TV determines the services and options you have access to. though all good TVs access many an equivalent core services (Netflix, Vudu, Hulu, Pandora), many further and niche channels will not be accessible on some good TV platforms. Also, for people that use iTunes to access streaming audio and video content, no TV as of 2018 has this capability — therefore albeit you have a wise TV, you continue to have to be compelled to purchase associate Apple TV box.



IV. DEVICES USED

Hardware Used:

- LVDS cables
- Main Board : MSD338ST V5.0
- 1 x 7Key button
- Inverter Card /Lamp Card
- SMPS 12VDC/4AMP



- Speaker 5OHM/ 20 Watt
- LED SCREEN PANEL
- Peltier
- PAM 8610 Bluetooth amplifier board
- Woofer
- Battery
- USB Battery charger
- DC-DC Converter
- Connectors

SOFTWARE USED

Inbuilt Android 4.4

Also the code that's needed as a Driver between board and also the Motherboard.

1. MSD338STV5.0_1366x768: This code is employed once the resolution of the TV is to be set within the resolution of 1366x768 2. MSD338STV5.0_1920x1080: This code is employed once the resolution of the TV is to be set within the resolution of 1920x1080 3. MSD338STV5.0_1&4G code with reset and resolution: not like the on top of code shown, this code helps the user to line any resolution as per demand and might be reset at any purpose of your time.

V. APPLICATION

When we quote streaming, the spoken communication typically centres on the foremost consumer- friendly options: Roku, Amazon fireplace, PlayStation, and Xbox. Google, after all Chromecast, a serviceable streaming stick command back by its lack of a distant, as it's primary focus. mechanical man TV could be a additional sophisticated than the other streaming solutions on the market, however it is also a significantly additional powerful system. Android TV could also be a wise TV platform from Google engineered around the mechanical man OS . Users will stream content to your TV via apps, each free and paid, mistreatment your net association. thereon front, it's constant as Roku and Amazon fireplace. You navigate through menus the smae means, mistreatment your phone as a remote to guide you as you go. not like different devices, however, mechanical man has Associate in Nursing open system, giving mechanical man TV access to apps Google may not formally approve of. Beyond its spectacular streaming capabilities, mechanical man TV will play emulators, run apps, work as a media player for your digital files. At the moment therearea unit solely 3 live TV streaming services that works on mechanical man TV: Sling TV, Fubo TV and YouTube TV. Of the 3, sling TV is that the most effective have an effect on plans. Fubo TV options a specialize in international sports programming rounded out with favorite cable channels like Bravo and Nat Geo. Finally, YouTube TV offers a general arrange with fifty channels with unlimited DVR recording house. Official mechanical man TV devices support Google casting, permitting you to stream video and audio content from your phone onto your TV. This feature solely works with bound apps, however most major streaming services support it.

VI. CONCLUSION

We have Studied all the parts of the overall equipment (i.e LED, liquid crystal display Displays, LVDS Cable , mechanical man Main Board ,Software/Firmware needed for UI, etc) with completely different purposeful parameters . we've completed our sensible mechanical man TV with some modifications in hardware and code. Our sensible has most the options that area unit gift in sensible TV's of different brands, conjointly this project has value United States of America Associate in Nursing approximate quantity of six.5K that is much however different sensible TVs. the most advantage of this project is that we have a tendency to all assembled our project on our own. The speciality of our TV is that it's value effective, simple troubleshooting is possible , integral apps , disapproval of our TV by assignment our faculty brand.



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