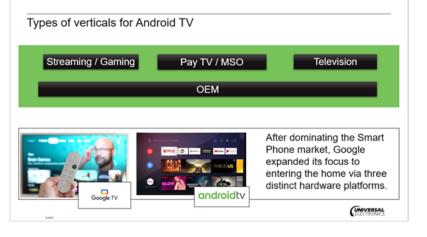
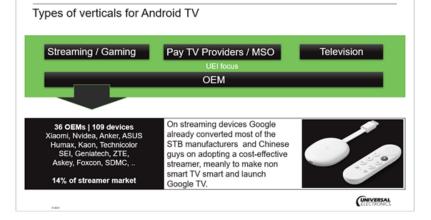
Android TV Control Solutions















SOME EXAMPLES OF OUR ANDROID TV REMOTES



Universal Electronics - Confidential



Features

- UEI market footprint
 - Scalability for volume/support
 - Off-the-shelf platforms
 - Pioneer on Android TV (Sony, Sling)

Low-Risk Minimum investment Time to market

Benefits

Technology leadership

- Custom UE878 silicon + flexible firmware
- QuickSet: auto-discovery and setup
- User experience improvement (raise-to-talk, adaptive control)
- Designovation, Premiumization



Differentiation Time to market Lower service cost



ARPU increase Higher stickiness Brand identity



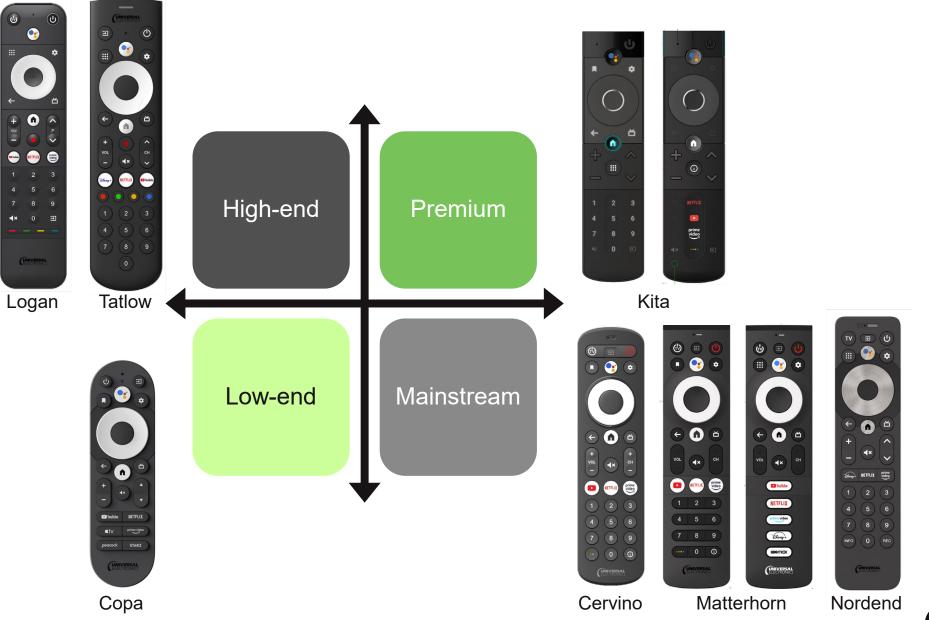




ANDROID TV PLATFORM OVERVIEW



ANDROID PLATFORM PORTFOLIO



UNIVERSAL ELECTRONICS.

Android TV platforms solutions





















Android TV COPA



Copa Platform

Copa is an accessible, affordable Android TV remote control.

It offers all functionality you expect from an Android TV voice remote in a compact, sturdy and contemporary design.



Design

Approachable and eco-friendly Highly customizable Cost effective



Recycled plastic back case Natural stone texture Sliding battery door

High-contrast dual-tone colors Prominent navigation island App Customization area

4

1

·n

START

\$









Designed for customization from 0 – 6 Full Size App Keys









Copa Features

Look and Feel

- ABS top case
- IR-translucent black bottom case and battery door
- 18-22 keys
- Flexibility for 0-6 dedicated streaming app keys
- Powered by 2x AAA batteries
- Dimensions 145 x 40 x 17 (mm)

Connectivity

- Based on UEI's UE878 Bluetooth LE SoC
- Powered by UAPI[™] for Google Android TV
- High-power IR LEDs for excellent range and angle
- Over-The-Air firmware update
- Configurable via RTC Run-Time Configuration tool

Interactivity

- Microphone for voice control
- Compliant with Google voice spec

Setup and Control

- Powered by QuickSet
- Controls TVs and soundbars
- Low voltage warning
- Supports RTC Run-Time Configuration tool



COPA Android TV Remote Control







Android TV CERVINO





Universal Electronics - Confidential



Cervino Platform

Cervino is an ergonomic and pure Android TV remote control.

The well-balanced keypad creates the simple look that matches the seamless experience of Android TV.





Design

Detailed design of the D-pad gives the user perfect navigation, even without looking at the remote.

K

З

6

>

 \oslash

•••





Ergonomics

Perfect fit for all users, zappers, channel hoppers or app lovers

Up to three customizable app keys









Cervino Features

Look and Feel

- ABS top case and battery door
- Torrey black bottom case
- 34 keys full metal domes max potential
- Three dedicated app/service keys
- Powered by 2x AAA batteries
- Dimensions 163 x 42 x 22.5 (mm)

Connectivity

- Based on UEI's UE878 Bluetooth Smart (BLE)
- Powered by UAPI™ for Google Android TV
- High-power IR LEDs for excellent range and angle
- Over-The-Air firmware update
- Configurable via RTC Run-Time Configuration tool

Interactivity

- Microphone for voice control
- Compliant with Google voice spec

Setup and Control

- Powered by QuickSet
- Controls TVs and soundbars
- Dynamic key mapping
- Low voltage warning



CERVINO Android TV Remote Control









Android TV MATTERHORN





Universal Electronics - Confidential



Matterhorn Platform

Matterhorn is a clean, distinguished remote for an excellent control experience.

Improving engagement by creating a strong center sweet spot which guides the user.



LESS BROWSING, MORE WATCHING

Matterhorn App

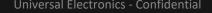
The clean and balanced design of Matterhorn creates a clear and distinguished look.

Your attention is drawn to the smooth and compact form factor and detailed design of the navigation area.











C ٠

0

Consideraser

 \odot

•

 \oslash

\$

*

C +

0

prine Sideo

\$

 \otimes

..)

*

Design

The pronounced design of the D-pad is the center grip position for the enjoyment of entertainment K

Prime

0

9

¥

8

 \oslash

••••

0

2

6

FTELIX

З

\$

34



App or Hybrid

Five app keys or hybrid with three app keys

VOL

NETFLIX

J

0

2

6

1

8

Œ

5

9

Chy

Prime

MATTERHORN Android TV Remote Control







Universal Electronics - Confidential





Matterhorn Features

Look and Feel

- ABS top case, bottom case and battery door
- 34 keys full metal domes max platform potential
- Three dedicated app/service keys
- Powered by 2x AAA batteries
- Dimensions 163 x 42 x 22.5 (mm)

Connectivity

- Based on UEI's UE878 Bluetooth Smart (BLE)
- Powered by UAPI[™] for Google Android TV
- High-power IR LEDs for excellent range and angle
- Over-The-Air firmware update
- Configurable via RTC Run-Time Configuration tool

Interactivity

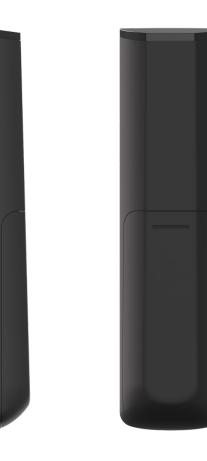
• Microphone for voice control, compliant with Google voice spec

Setup and Control

- Powered by QuickSet
- Control TVs and soundbars
- Dynamic key mapping
- Low voltage warning







Matterhorn Features

Look and Feel

- Black ABS top case, bottom case and battery door
- 24 keys full metal domes platform potential up to 34 keys
- 5 dedicated app/service shortcut keys
- Powered by 2x AAA batteries
- Dimensions 163 x 42 x 22.5 (mm)

Connectivity

- Based on UEI's UE878 Bluetooth Smart (BLE)
- Powered by UAPI™ for Google Android TV
- High-power IR LEDs for excellent range and angle
- Over-The-Air firmware update
- Configurable via RTC Run-Time Configuration tool

Interactivity

• Microphone for voice control, compliant with Google voice spec

Setup and Control

- Powered by QuickSet
- Control TVs and soundbars
- Dynamic key mapping
- Low voltage warning



Android TV NORDEND

~~• **____**

€

ΤV

...

 \leftarrow

+

Disnep+

C

\$

ď

prime video

3

6

1

≼×

NETFLIX

2

5



Universal Electronics - Confidential



Nordend Platform

Nordend is an elegant remote control that pairs a balanced form with a pleasant combination of straight lines and round shapes.

It offers a rich verity of options for colors, finishes and textures.



NORDEND ANDROID TV REMOTE CONTROL





Universal Electronics - Confidential









(# C2) 1 (* C2) (* C2)

3

. (2)(#)

6

(Z)(3)

3

6

(×

Connecht

8

REC

Converte

1

•

K

S

•

3

K

0

•



K

4

×

3

6

9

(UNIVERSA

46



<u>د</u>

R

*+

7

\$











Nordend Features

Look and Feel

- Choice of round or convex silicone keys
- Various finishings possible for D-pad and surrounding ring including metallic options
- Optional hard caps for home and voice keys including clear ASA and metallic look
- 34 keys full metal domes max potential
- Three dedicated rectangular streaming service app keys
- Powered by 2x AAA batteries
- Dimensions 173.5 x 41.6 x 22.5 (mm)

Connectivity

- Based on UEI's UE878 Bluetooth Smart (BLE)
- Powered by UAPI[™] for Google Android TV
- High-power IR LEDs for excellent range and angle
- Over-The-Air firmware update
- Configurable via RTC Run-Time Configuration tool

Interactivity

Compliant with Google voice spec

Setup and Control

- Powered by QuickSet
- Control TVs and audio peripherals





Android TV LOGAN



LOGAN ANDROID TV REMOTE CONTROL









Universal Electronics - Confidential





Logan Platform

Logan is a high-end remote control with an ergonomic design.

Thanks to its modular design it offers a variety of look and feel options including discrete keys or a soft-touch rubberized keypad that's easy to keep clean.















•

-

7

И

(* 3 1)

0

D

0

.

Ø

0

(৩)

3

さ

(3)

.

ک

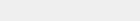
٢

0

×

- 01





Logan Backlighting







Universal Electronics - Confidential





Logan Features

Look and Feel

- · Choice of silicone digit keys or rubberized key mat
- Up to 37 keys full metal domes
- Four color keys are optional
- Three dedicated streaming service app keys
- Optional backlighting, ambient light sensor and proximity sensor
- Powered by 2x AAA batteries
- Dimensions 184 x 42.5 x 18.5 (mm)

Connectivity

- Based on UEI's UE878 Bluetooth Smart (BLE)
- Powered by UAPI™ for Google Android TV
- High-power IR LEDs for excellent range and angle
- Over-The-Air firmware update
- Configurable via RTC Run-Time Configuration tool

Interactivity

Compliant with Google voice spec

Setup and Control

- Powered by QuickSet
- Control TVs and audio peripherals



Android TV TATLOW



Tatlow Android TV Remote







Tatlow Platform

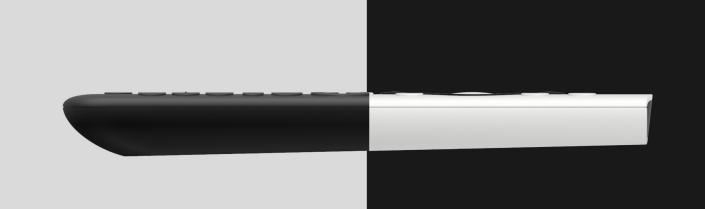
Tatlow is a full-size, fully functional voice remote.

It can be equipped with backlighting and highend features including proximity and light sensors.





G









Tatlow Backlighting



Tatlow Android TV Remote



Tatlow Android TV Remote









Tatlow Features

Look and Feel

- Optional logo print on high-gloss battery door
- Up to 36 keys full metal domes
- Four optional color keys
- Three dedicated streaming service app keys
- Optional backlighting, ambient light sensors and proximity sensor
- Powered by 2x AAA batteries
- Dimensions 189.5 x 47 x 20.8 (mm)

Connectivity

- Based on UEI's UE878 Bluetooth Smart (BLE)
- Powered by UAPI™ for Google Android TV
- High-power IR LEDs for excellent range and angle
- Over-The-Air firmware update
- Configurable via RTC Run-Time Configuration tool

Interactivity

Compliant with Google voice spec

Setup and Control

- Powered by QuickSet
- Control TVs and audio peripherals







Kita Platform

Kita is a combination of style and simplicity that improves engagement for seamless user experiences.

An award-winning ultra-slim remote that only shows the keys you need with UEI's unique adaptive backlight for ultimate user experience.

vector control co





Kita Platform

- Award-winning ultra-slim remote that only shows the keys you need
- Fully backlit voice RF remote control with rechargeable battery, optimized for Android
- Flexible design with max 29 keys including max three app keys + RBG backlit home/operator key
- Key UEI technology
 - Unique adaptive backlight for ultimate UX
 - Low power UE878 Bluetooth Smart (BLE) silicon
 - Real Time Configurator for easy intergration
 - Powered by QuickSet (control TVs, soundbars and AV receivers)
 - Supports dynamic key mapping



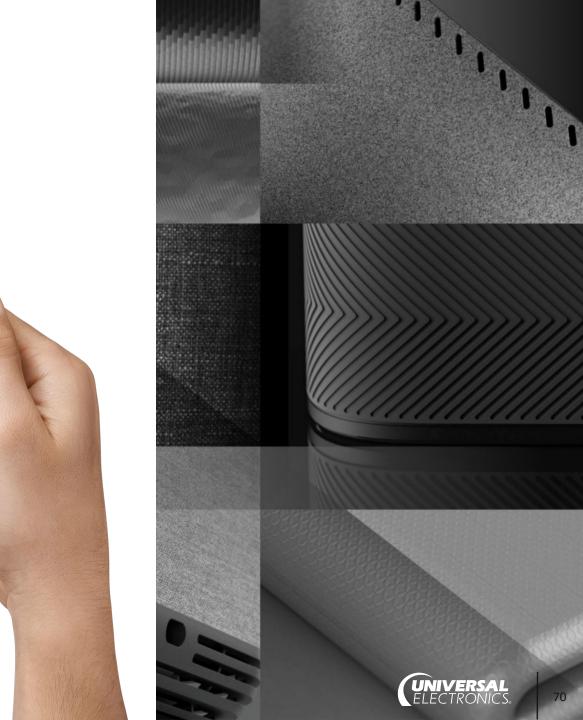
ANDROID TV KITA

STYLE MEETS SIMPLICITY

Kita

- True Android TV experience combined with high class design and materials
- Improves engagement with seamless user experience
- Creates the perfect interaction between software, hardware and the user
- Visually appealing and simplifies usage by hide and reveal functionality (adaptive backlighting) without losing the design intent that makes people want to pick up the remote from the table and start consuming content

0



KITA PLATFORM

LONG LASTING AND ENVIRONMENT-FRIENDLY

Rechargeable battery

Part of the feature-rich product proposition is a rechargeable battery to allow maximum use without having to replace the batteries.

The USB-C plug can be inserted into the port in both orientations. Charging takes up to four hours maximum.



A perfect match for today's smart homes in the new circular sustainable economy.



KITA PLATFORM

CUSTOMIZABLE DESIGN

Human Touch

Blending technology for the homes we love to live in by designing an elegant and well-balanced remote.

The bottom inlay is designed to add a warm and unique touch through a modular process allowing multiple customizations.



Soft touch materials create a warm and unique touch.





Adaptive backlight

No more key clutter, showing you only the keys you need







Adaptive Backlighting - Easy Start One Touch View Adaptive Backlighting - on Normal State Adaptive Backlighting - on live TV Watching Live TV 74

UEI Kita / Adaptive Backlighting

USER SCENARIO TVOFF





75

UEI Kita / Adaptive Backlighting

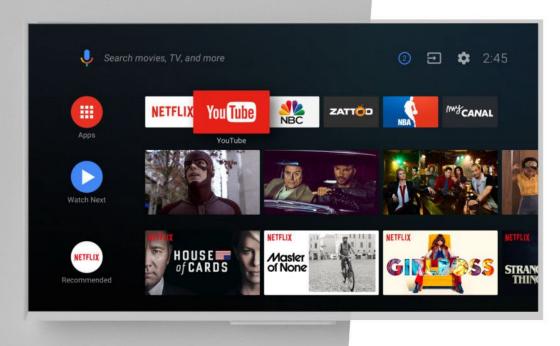
USER SCENARIO EASYSTART





UEI Kita / Adaptive Backlighting

USER SCENARIO OTT ANDROID TV





UEI Kita / Adaptive Backlighting

USER SCENARIO LIVE TV





Jniversal Electronics - Confidentia

Universal Electronics - Confidential



10

N

7

\$

X

S

6

9

7

8

 \bigotimes

0



Design

- Strong, defined shape with smooth soft-touch finish
- Hard-cap keys with premium materials and laseretched full dynamic white backlight



Brand in the hand

4

Customization options in colors and materials combined with an RGB color LED for the home key provide unique branding opportunities

UNI

App or Hybrid

Three app keys or hybrid with an app key



+		< >
E	NETFLIX	+
	prime video	
∢×		Ð



ANDROID TV KITA

Benefits for operators

- Wireless BLE remote control with Universal TV/amp control.
- Premium and compact remote control designed in Europe
 with branding opportunities
- Simple setup and enhanced Android TV usage (QuickSet and adaptive backlighting)
- Customizable home key graphic
- STB software-controlled LED color
- Dedicated app key for operator selected One Touch function (e.g. Netflix)
- Low investment when requesting simple remote customizations and when using the software flexibility of RTC for different host STB configurations
- Built with re-manufacturing in mind

Benefits for end users

- Google Assistant voice input
- Nice to use and premium tactile feel of the keys metal domes
- Adaptive backlighting to help navigation, even in the dark
- App key for operator selected One Touch use (e.g. Netflix)
- Rechargeability, never have to replace batteries even for heavy users
- Premium and slim design that looks great







Features

Look and Feel

- Advanced adaptive backlit keypad for the ultimate user experience
- Laser etched icons with white backlight (home is an RGB LED)
- Premium materialization through multiple tones of black
- Three main access keys (Including Google Assistant)
- Rechargeable battery (500mAh) by USB-C connector
- 29 keys with metal domes

Connectivity

- Bluetooth Smart (BLE) based on UEI's UE878
- Powered by UAPIã for Google Android TV
- High-power IR LEDs for excellent range and angle
- Over-The-Air (OTA) firmware updateable
- Configurable via RTC Run-Time Configuration tool

Interactivity

- Digital microphone for voice capturing
- Compliant with the latest Google voice spec
- Adaptive backlight (white LEDs)
- RGB LED feedback (though the home key)

Setup and Control

- Powered by QuickSet for auto discovery and setup of TV, AVR and soubdbar
- Control TVs, soundbars and audio receivers
- Battery status and low voltage warning









ANDROID TV FLEXIBILITY

Integration Tools - RTC

What is RTC?

Run-Time Configuration tool

- A software tool (PC or mobile/Android) enabling a single configurable firmware in the RCU
- Configuration is provided by a set of parameters that can be modified easily, without a full new cycle of firmware development
- Can be updated quickly during development. Pre-loaded in Flash for Mass Production

Programming:

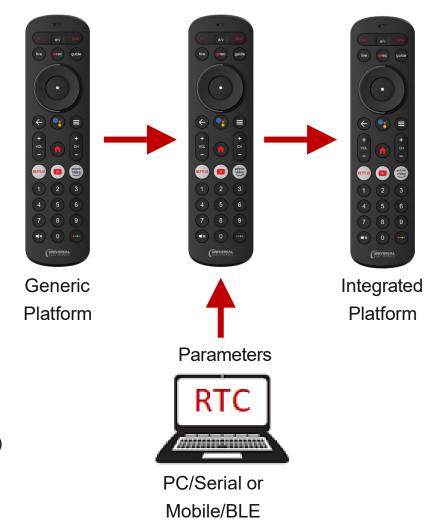
- Per Unit parameters (Serial, MAC)
- Per Product parameters (UEI, PN, Name, version, Keymap, BLE, audio etc.)
- Done by (1) AE in development or (2) factory in MP

Key benefits:

- Software development cost and management cost reduction (only a FAE is needed for simple cases)
- Time to market

Platforms:

• All Android TV platform remotes including Cervino, Matterhorn, Kita, Nordend, Logan, Tatlow, Copa





digits or apps



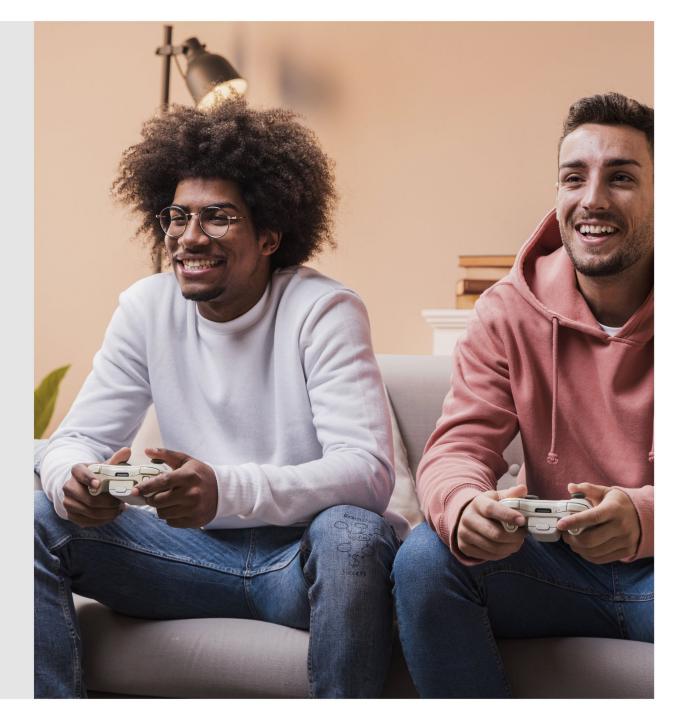


Build a better gaming experience





Adaptive control[™] only shows you the game pad when playing games







virtual agent

Self support service for



When combined with QuickSet it is enhanced with the knowledge of existing devices at the home including real-time access to secure remote troubleshooting features.



An integrated tier 0 support service for Entertainment and Smart Home devices.





virtual agent

Video Service Providers



Helps the user with Self Install Kits

Set Top Box and Remote-Control Onboarding

((41/24))

0000 0000 40₽

Troubleshooting for TV and Audio Devices

Integration on Customers Support Site

Hand Off to Live Human Agents

Customer Branded Experience

OUICKSET®



An integrated tier 0 support service for Entertainment and Smart Home devices.



Thank you!

