TCL TV

Overview

This driver provides IP control for TCL Google TV models over the local network. It supports discrete power, navigation, number pad, volume, channel, and input selection without IR.

Requirements

- Control4 OS **3.4.1** or higher
- TCL **Google TV** on the same LAN as the controller (**TCL Roku TVs are not compatible**)
- Google account signed in on the TV
- **Network Standby** enabled
- Static IP or DHCP reservation recommended

Setup

TV

1. Connect the TV to the network (Ethernet recommended).
2. Sign in with a Google account: **Settings → Accounts → Add Account**.
3. Enable **Network Standby**: **Settings → Network & Internet → Network Standby**.
4. Recommended under **Settings → System → Power & Energy**:
    - **Energy Saver → Off**
    - **Screenless Service → On**

Driver

1. Add **TCL TV** in Composer Pro.
2. Set **IP Address** to the TV.
3. Leave **Control Method** on **TCL Protocol** (default) unless the TV does not respond. Then switch to **ADB** and complete ADB pairing below.

ADB pairing (input selection / ADB control)

Discrete input selection uses ADB. Pairing is optional for basic control when **Control Method** is **TCL Protocol**, but required for discrete inputs and when using **ADB** as the control method.

1. On the TV: **Settings → System → About**, select **Android TV OS build** seven times until developer mode is enabled.
2. **Settings → System → Developer options** → enable **USB debugging** (also enables ADB over the network).
3. On the driver, run **Pair ADB**.
4. On the TV authorization popup, check **Always allow from this computer** and select **Allow**.

Pairing persists across driver reloads and TV reboots.

Properties

Property	Description
Cloud Status	DriverCentral license status (read-only)
Automatic Updates	Allow automatic driver updates when available
Driver Version	Packaged driver version (read-only)
IP Address	TV IP address on the LAN
Control Method	**TCL Protocol** (default) or **ADB** fallback
Power Status	Current power state tracked by the driver (read-only)
Log Level	Logging verbosity; resets to Off after about 1 hour when not Off
ADB Paired	Whether ADB pairing has completed (read-only)
ADB Status	ADB connection status (read-only)

Actions

Action	Description
Pair ADB	Starts ADB pairing; authorize the prompt on the TV
Reconnect ADB	Disconnects and reconnects the ADB session

Programming

Events

Event	Description
ADB Connected	ADB session became ready
ADB Disconnected	ADB session dropped

Commands

Command	Description
Reconnect ADB	Reconnects the ADB session

Troubleshooting

Symptom	What to try
TV does not respond	Confirm IP, Network Standby, Google account sign-in, and that the set is Google TV (not Roku)
TCL Protocol fails	Switch **Control Method** to **ADB**, pair ADB, then retry
Input selection missing / fails	Enable USB debugging, run **Pair ADB**, confirm **ADB Paired** = Yes and **ADB Status** = Connected
ADB pairing fails	Revoke USB debugging authorizations on the TV, run **Pair ADB** again, and allow the prompt within a few minutes
Need more detail	Set **Log Level** to **Trace** and check Lua output

Limitations

- **TCL Roku TVs are not supported.**
- Confirmed on TCL **98QM7**. Expected on other TCL Google TV lines (for example NXTFrame, S55xG / S65xG, Q67xG / Q88xG, QM7 / QM8 series, C655 / C855 / P745). Model support varies; contact support if a Google TV model does not respond.

Support

If you have questions or issues with this driver, contact us at support@solidified.co or call/text +1 (561) 444-9960. You can also submit a support ticket at DriverCentral.

Changelog

v20260519 - 2026-05-19

Changed

- Improved performance and fixed miscellaneous bugs.

v20260306 - 2026-03-06

Added

- Added programming events and commands for ADB lifecycle.

v20251118 - 2025-11-18

Changed

- Changed ADB control mode to use discrete power On.

v20251117 - 2025-11-17

Added

- Added dual protocol support with Control Method property: TCL Protocol (default) and ADB (fallback) for broader TV model compatibility.

v20251102 - 2025-11-02

Added

- Added configurable log levels with 1-hour auto-reset.

Changed

- Changed ADB input selection from beta to stable.
- Improved error handling and code optimization.

v20251031 - 2025-10-31

Added

- Added number pad (0-9) and special character support (*, #, -) for direct channel entry and navigation.

v20251029 - 2025-10-29

Changed

- Replaced experimental macro-based input selection with ADB-based discrete input switching (beta) for instant, reliable input changes.

v20251023 - 2025-10-23

Added

- Initial release.