



Symbio Smart Auto

Industrial-proven Solution For Forward-thinking Automotive Manufacturing Professionals



One Platform for Multiple Car Models

Elysian is an infotainment solution built using industry proven components on top of embedded Linux operating system. Over-the-air software updates and precertified software components support fluent future upgrades.



Quick, Cost-Efficient and Easy to Modify

OEM specific applications and user experience customizations are enabled by quick and cost-efficient design and modular architecture. Elysian allows changes and modifications to be deployed directly from designer tools to target hardware.



Top-End Features at Accessible Price

Elysian is loaded with features such as tuner functions for all radio systems globally, media player functionality, sound effects, rear-view-camera support, vehicle control functions, Bluetooth connectivity, hands-free phone management and optional navigation.



Integrated, Versatile Implementations

High performance and precertified implementations of all smartphone replication standards including Apple CarPlay, Android Auto, Baidu CarLife and Smart Device Link are integrated as part of Elysian stack. Android Auto Wireless and CarPlay-over-wireless are also supported.



Apple CarPlay



androidauto



smart device link

Modifications & Modern Payment

- Remote device management enabled over-the-air software updates either through dedicated modem or through car owners cell phone.
- Possibility to create subscriptions or micropayment services for end customer. Such as, new user interface themes for car owners.
- With help of Qt, new features and functionalities can be rapidly developed to exceed your expectations.
- Layout based UI makes support of new aspect ratios, resolutions and orientations easy.

Lower Total Cost with Professional Delivery

- Modern component based modular architecture and high configurability allow minimizing of system resource requirements and savings in hardware cost.
- Continuous Integration and Test Automation methods during development and integration safeguard system integrity from regression.
- Over-the-air updates, high maintainability and community improvements enhance cyber security.

Timely Delivery and Support

- Elysian is tailored for every customer need and turn-key-delivered with full engineering support of Symbio's global delivery capability.
- System wide use of industry standard APIs and modular architecture accelerates integration.

Long Term Support and Maintenance

- Our customers are supported through the entire life cycle of the product (bug fixes, new features, etc.)
- With Symbio's global presence our customers are provided with support services virtually anywhere in the world.



Features of Symbio Smart Auto



All our global resources are geared to help you to keep your Start of Production schedule. Elysian architecture is equivalent to industry-proven, modern architecture systems used in challenging environments such as heavy industry and cyber security.

Display	Resolution Color Display adjustments TFT interface Rear-Seat Display	WVGA/HD/UHD 24bit Brightness/Contrast/Tone/ Color/Gamma curve RGB888/LVDS Cinemo Distributed Playback™	Tuner	AM/FM FM-RDS DAB DRM HD Radio	
Touch	Capacitive/Resistive Features	Multitouch pinch/drag/swipe/ flick/drag	USB	Audio Video Photo File system	MP3/WMA/AAC/WAV/FLAC H.264/H.263/MPEG-1/ MPEG-2/MPEG-4/WMV/ DivX JPEG/BMP/TIF/PNG FAT32/16
Internationalization	Supported scripts: *		Sound	Bass/Tre/Mid Sound Effect AutoVolume Control Loudness Fix EQ, balance, fader etc.	Surround, Bass boost, etc
HMI	Wallpapers Back screen design Icon design Font engine Font formats	Full wallpaper support Fully customizable layouts Full vector icon support FreeType 2 **	Voice Recognition	In-device	Voice commands, voice tags
Wifi	IEEE802.11(b/g/n/ac) Miracast		Smartphone Replication	Apple CarPlay Google Android Auto Baidu CarLife SDL Mirrorlink Abalta WebLink®	Wired Wireless Wired Wireless
Location info	GNSS Receiver Gyro Dead Reckoning Differential Wheel Pulse	GPS/GLONASS/BeiDou/ Galileo/QZSS	System and Security	Software Update (OTA) Remote device management Security updates	
Navi	Integrated navigation solution option				
Android	MTP AOA				
iOS	iAP1 iAP2				

* Chinese, Japanese, Korean, all Latin scripts, Arabic, Cyrillic, Greek, Hebrew, Thai and Lao, Bengali, Burmese, Devanagari, Gujarati, Gurmukhi, Kannada, Khmer, Malayalam, Tamil, Telugu, Tibetan

** TTF, PostScript Type1, BDF CID Type1, CFF, OpenType, SFNT, PCF, Windows FNT, PFR, Type 42