

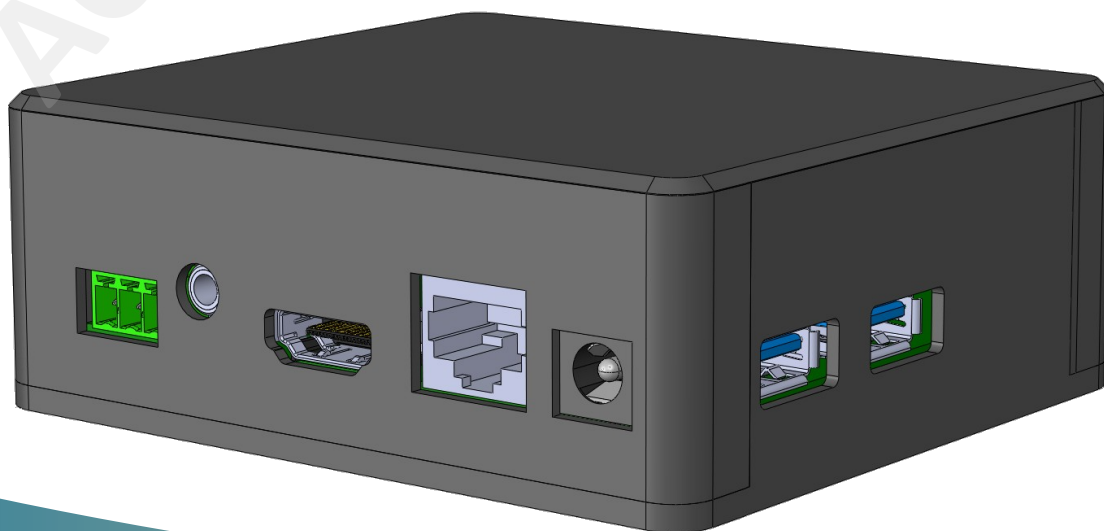
ESY-CRK02

Set-Top Box Design with Integrated TF Card, USB, and HDMI Interfaces

Features

- Quad Core 64-bit Cortex A55 with up to 1.8GHz
- GPU ARM G52 2EE
- 1080p@60fps H.265/H.264 Video Encoder
- 2GB LPDDR3
- 16GB eMMC
- 1x RJ45 Port, 10/100M
- 1x USB 2.0
- 1x USB OTG
- 1x HDMI 2.0
- TF Card Support (up to 128GB)
- Android 11

Appearance



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Revision Table

Date	Revision	Content	By
2025/07/21	0.1	First Draft (Preliminary)	Eisley
2025/07/22	0.2	Revised Environmental information	Eisley

ACT POWER TAIWAN
Preliminary

ESY-CRK02

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Specification

System	
SoC	Quad Core 64-bit Cortex A55 with up to 1.8GHz
Microarchitecture	ARMv8-A (64-bit) ARMv8 Cryptography Extensions
GPU	ARM G52 2EE, Support OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1, Embedded High Performance 2D Acceleration Hardware
Memory	2GB LPDDR3 on Board
Storage	16GB eMMC on Board
TF card	Support, up to 128GB
External I/O	1x RJ45, 10/100M Adaptive Ethernet 1x USB 2.0 1x USB OTG 1x HDMI 2.0 1x RS485 1x Infrared Receiver, Support Infrared Remote-Control Function
OS	Android 11
Power Supply	5V / 2A
	Output 5V DC, 1x DC Power Jack
Housing	
Material	Plastic Case
Dimension	Approximately 90×90X13 (mm)
Weight	TBD

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Environmental

Operating Temp.	0°C to 70°C, Recommend 5°C~35°C
Storage Temp.	-35°C to 75°C, Recommend Storage at Room Temperature
Humidity	10% - 90% , Non-Condensing.

Compliance

Certifications	TBD
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Deliverables

1	Set-Top Box
2	5VDC / 2A Output Adapter

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Ordering Information

Model Name	Description	Unit
ESY-CRK02	Set-Top Box	1

Ordering Details

ESY-CRK02 - 2 1 N

Storage

- (N) None
- (1) 8GB
- (2) 16GB
- (3) 32GB
- (4) 64GB
- (5) 120~128GB
- (6) 240~256GB
- (7) 480~512GB
- (8) 960~1TB
- (9) 2TB

RAM

- (N) None
- (1) 2GB
- (2) 4GB
- (3) 8GB
- (4) 16GB
- (5) 32GB
- (6) 64GB
- (7) 128GB

Connectivity (Wireless) WIFI/GPS/BT

- (N): None
- (A): WIFI, BT, GPS
- (B): BT
- (C): WIFI, GPS
- (D): BT, GPS
- (E): WIFI, BT
- (G): GPS
- (W): WIFI

Example: ESY-CRK02-21N

Set-Top Box with 16GB Storage, 2GB RAM

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