SOLAR PLATFORM · CONCEPT

RF20A

A solar remote with no battery compartment: a panel under the key area powers RF, IR, BLE and voice in a 10 mm-thin housing.

RADIO	RANGE
RF+IR+BLE	≥15 m
THICKNESS	BATTERY
10 mm	None

01 SPECIFICATION

Model	**RF20A**
Platform / status	Solar · concept, built per programme
Radio	RF + IR + BLE
Range	RF ≥ 15 m · IR ≥ 8 m · voice ≥ 10 m
Chip platform	BLE 5.2 SoC
Voice	Yes — voice input
Air mouse	No
Power	No battery — solar cell under the key area
Dimensions	180 × 37 × 10 mm
Application	Smart TV · OTT

Values are for the reference build. Your configuration is specified in the datasheet issued with the quotation.

02 RELIABILITY & TEST REGIME

- Key life test
- Constant humidity
- Infrared irradiance
- Drop and vibration
- High / low temperature shock
- Working & quiescent current
- Remote and angle test
- Packaging transportation drop

Applied items from a 61-item quality and reliability schedule, run in the in-house laboratory alongside in-house SMT, injection moulding and assembly. Configuration-dependent values — key life cycles, temperature limits, current draw, carton quantity, MOQ and lead time — are issued per programme with the quotation.

03 APPLICATIONS

- Hotel and hospitality TV
- Set-top box and OTT platforms
- Smart TV voice interaction
- Programmes replacing disposable batteries

04 PROGRAMME STEPS

1. **Scope** — key map, radio set, market, certification
2. **Sample** — unit built to the agreed configuration
3. **Validation** — range, key life, drop, EMC pre-scan
4. **Production** — test spec, fixtures, packaging

05 MANUFACTURING & COMPLIANCE

- SMT, injection moulding, screen printing and laser in-house
- Assembly, test fixtures and packaging on site
- Design and firmware in one team — 32 engineers
- CE, FCC, RoHS certificates available
- ISO 9001 and ISO 14001 certified, BQB qualified
- Export share: Asia 50%, Europe 25%, USA 15%

ALSO IN THIS FAMILY **R36A** BLE voice · **IR45A** IR learning · **RF39A** BLE · all 13 models at serow-tech.com/en/products

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Specifications subject to change without notice.