

KANTECH

A Smarter Way for Your Broadband Life

KT2S30D, Repeater



OVERVIEW

The KT2S30D Repeater is designed for cost-effective mobile coverage extension in rural, roadside, and remote areas. Operating in the 900 MHz band with a maximum output power of 30 dBm (1 W), the repeater provides stable signal amplification while maintaining low overall power consumption. Its low-power architecture makes the unit highly suitable for solar-powered installations, especially in locations where access to commercial power is limited, unreliable, or unavailable. When combined with a properly sized solar panel, battery bank, and charge controller, the repeater can operate as an independent off-grid coverage solution.



MADE IN
IRAN

DESCRIPTION

Electrical Data

Item	Uplink	Downlink
Frequency Range (MHz)	890~915	935~960
	1710~1785	1805~1880
	1920~1980	2110~2170
Max.Total Output Power(dBm)@Center Frequency	20±2	30±2
Max.Gain (dB)@ Center Frequency at 25°C	75±3	80±3
ATT Adjustable Range (dB)/(Step)	0~30 @ 1 dB step	
ATT Adjustable Error (dB)	≤ ±1.5	
ALC (dB)	0~30	
Noise Figure (dB) (Max. Gain)	≤ 8dB @Band edge ± 5MHz≤10dB	≤ 8dB @Band edge ± 5MHz≤10dB
Input VSWR(Power up, Min Gain, Pin=-30dBm)	≤ 1.8	

- Technology: 2G/3G/4G
- Frequency:900M
- Output Power(dBm):30
- Support ICS Function
- Support multi sub-bands
- Support bandwidth movable and tunable

KEY FEATURES

- Single-Band Operation: 900 MHz
- Maximum Output Power: 30 dBm / 1 W
- Low Power Consumption
- Suitable for Solar-Powered Systems
- Ideal for Rural and Roadside Coverage
- Suitable for Off-Grid and Remote Locations
- Compact and Easy to Deploy
- Cost-Effective Coverage Extension
- Supports Reliable Voice and Basic Mobile Connectivity

LICENSES AND CERTIFICATES

- CRA Certificate
- Federal Communications Commission Certificate
- MIIT / SRRC Certificate

COMPLETED PROJECTS

Since May 2008, Kankash Ertebat Asia Co. has successfully completed various projects across Iran, providing coverage for different roads and rural areas using these repeater models and solar power systems.



APPLICATIONS

Typical applications include rural villages, highways, remote roads, agricultural areas, temporary sites, and low-density communities requiring improved mobile network coverage.

This solution provides a practical approach for extending mobile network availability into underserved areas while reducing dependence on fixed power infrastructure.

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