



SUPARCO

Pakistan Space & Upper Atmosphere Research Commission



SKY CONNECT

OVERVIEW

The Sky Connect satellite communication terminal is designed for Paksat-MM1 Highthroughput Satellite, providing broadband satellite network access without geographical limitations. It features a compact and lightweight design with a high level of integration. The terminal integrates an automatic satellite pointing control system, a transceiver unit, a modem, Wi-Fi, and a battery. It offers the advantages of being small, light, and easily portable, allowing single-person carry. With one-touch automatic satellite pointing and network access, it enables fast network deployment in various challenging environments.

PRODUCT FEATURES

• Weight < 10kg with Dimensions < 0.3m

• Built in dual GPS for precise positioning with IMU tracking mechanism.

Auto pointing accuracy of 0.2 degree, acquisition time < 4 min

Download speed up to 100 Mbps, upload speed up to 10 Mbps

• Customization available as per user requirement

• Supports BPSK, QPSK, 8PSK and 16APSK modulations at different coding rates.



Built-in Wi-fi and Ethernet interfaces



Battery upto 3 hours



Easy to install configure and operate

TECHNICAL PARAMETERS

Antenna Aperture: 0.5m	First sidelobe: ≤-16dB
VSWR: ≤1.5dB	Cross polarization isolation: ≥20dB
Polarization: Left-hand / Right-hand	G/T: 13dB/K
Receive frequency: 18.0GHz~20.2GHz	EIRP: 46dBW
Transmit frequency: 29.0GHz~30.0GHz	BUC: 4W
Gain (Rx): ≥37dBi (@19.45GHz)	Dimensions: ≤460mm×330mm×98mm
Gain (Tx): ≥40.5dBi (@29.25GHz)	Weight: 9.6kg (including battery)