

Satellite Modem SD7000M

PRODUCT DESCRIPTION

Satellite modem, TDM/TDMA (network management) + FDMA (service) mixed communication system, dual-transmit and dual-receive, fully localized design, pure Chinese operation interface.

All core technologies are implemented independently, and can be used for business communication under remote station network management .

The equipment is suitable for high-speed, large-capacity satellite communication applications, especially suitable for application communication environments with harsh channel conditions, and can be installed in fixed stations, vehicles, airborne, and shipboards. Products are widely used in various industries such as firefighting, public security, emergency, electric power, water conservancy, petroleum, meteorology, civil air defense, aerospace, military, and telecom operators.

SPECIAL FEATURES

1. Flexible information rate configuration, the maximum two-way carrier of the business channel is 28Mbps
2. Targeted at IP network design, providing a unified satellite communication platform for diversified IP services
3. Powerful background network management system, supporting remote monitoring and management
4. The equipment has passed the authoritative certification of CNAS organization, with excellent performance and reliable quality.
5. Support Layer 2 bridge mode and Layer 3 routing mode
6. Support TDMA+FDMA dual-channel mixed communication
7. Support bandwidth allocation on demand and automatic business perception
8. Support RS232 serial data port to control other equipment
9. The extension port can be customized to support GPS/BD module

TECHNICAL PARAMETERS

SD7000M Modem technical indicators

Data rate 24kbps~22Mbps

Channel :dual-transmit and dual-receive

Modulation method: BPSK, QPSK, 8PSK, 16APSK

Encoding method: LDPC+BCH, TPC

FEC encoding rate: 1/2, 3/4, 7/8

SCPC signal to noise ratio:

2.5dB, $P_e \leq 1 \times 10^{-6}$ @QPSK(1/2)

3.3dB, $P_e \leq 1 \times 10^{-6}$ @QPSK(3/4)

4.2dB, $P_e \leq 1 \times 10^{-6}$ @QPSK(7/8)

5.8dB, $P_e \leq 1 \times 10^{-6}$ @8PSK(3/4)

Phase noise :

Better than -85dBc@100Hz
Better than -93dBc@1kHz
Better than -99dBc@10kHz
Better than -102dBc@100kHz

Output frequency range: 950-2150MHz, 1Hz

Interface type and impedance: N, 50Ω

Emission level: -55~-1dBm

Emission level resolution: 0.1dB

Reference clock: Can output 10MHz reference signal

Input frequency range: 950-2150MHz, 1Hz

Maximum input level: +5dBm

LNB power supply: 13V/22KHz, 18V/22KHz

Data interface: Ethernet, RS232, V.35 (optional)

Operating Voltage: 110~240VAC, 50~60Hz

Power consumption: ≤30W

Temperature: Working temperature: -40~85°C, Storage temperature: -55~85°C

Working humidity: 95%, non-condensing

Dimensions: 480*400*45mm (including installation parts), 1U

Weight: ≤3.8kg



Front Panel



Rear Panel

Info:

www.angelia.space