

AYECKA SBT1 S-BAND TERMINAL

For Premium and High-End Applications

COMPACT ALL-IN-ONE TERMINAL

AYECKA SBT1 is a high-performance, all-in-one S-band satellite terminal designed to deliver reliable connectivity in fixed and mobile environments where terrestrial networks are unavailable, unreliable, or impractical. AYECKA SBT1 integrates a satellite modem, omni-directional antenna, Wi-Fi access point, GNSS location services, and storage in a compact, ruggedized outdoor unit. Operating over DVB-S2X for the forward link and supporting flexible modulation (BPSK, QPSK), AYECKA SBT1 delivers IP-based communication in a compact footprint with low power consumption and simple Power-over-Ethernet (PoE) installation.

BUILT FOR REMOTE AND RUGGED DEPLOYMENTS

Designed for premium applications in defense, public safety, energy, environmental monitoring, and connected vehicle systems, the SBT1 excels in power-constrained and harsh field conditions. It meets stringent IP67 and MIL-STD-810G durability standards, supports multiple GNSS constellations (GPS, GLONASS, BeiDou), and offers SD-card storage up to 512GB for data logging or local caching. With support for remote management and automatic service restoration, AYECKA ensures always-on connectivity. Its rugged all-outdoor design allows for flexible mounting and enables rapid deployment across diverse operational scenarios.

PRODUCT SHEET

HIGHLIGHTS

- All-in-one outdoor unit with integrated satellite modem and Wi-Fi
- High-capacity storage with SD-card supports up to 512GB
- Supports multiple satellite modulation schemes (BPSK, QPSK) and forward link via DVB-S2X
- Multi-constellation location services (GPS, GLONASS, BeiDou)
- Rugged design meeting MIL-STD-810G and IP-67 standards
- Wide operational temperature range: -25°C to +60°C
- Power over Ethernet (PoE) with optional external battery pack



AYECKA SBT1 S-BAND TERMINAL – SPECIFICATIONS

MODEM

Satellite Frequency Band: S-Band Satellite Frequency Range: RX: 2160-2200 MHz TX: 1980-2025 MHz Frequency Accuracy: 0.1 ppm Modulation Scheme: BPSK (FSIM), QPSK (RCS2) Signal Bandwidth: 2.5, 5, 10 MHz channels for FSIM From 128 to 0.96 Msps for RCS2 FEC Type: Turbo codes Continuous Doppler Correction: 0 - ±50KHz Forward Link: DVB-S2X

Location Service: GPS, GLONASS, and BeiDou

Wi-Fi

Wi-Fi Standards: 802.11 n, a, b, g Radio Band: 2.4GHz Number of Users: Concurrent up to 20 users Radius: 10-30 m

ADDITIONAL INFORMATION

Physical

Dimensions (W*D*H): 202*109*65 mm Physical Interfaces: Ethernet Port, 10/100Mbps UART to MicroUSB 4 x Discrete I/O USB 2.0 or higher Wi-Fi 802.11 b,q,n Physical Connectors: Ethernet RJ-45 UART, RS-232 4 x Discrete I/O USB 2.0 or higher Power through POE Antennas: Satellite Rx, Tx (S-band RHCP) Wi-Fi

Environmental & Power

Operational Temperature: -25°C to +60°C Storage Temperature: -25°C to +85°C Durability Standard: MIL-STD-810G Humidity: <95% RH Ingress Protection Rating: IP-67 Power Supply: DC 12V (9V – 14V) through POE Optional External Battery Pack - 12V 20Ah

Certification CE, FCC

For more information visit www.novelsat.com www.ayecka.com

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