China Starwin
uSat Flat Terminal
ZL60P-E
Datasheet

China Starwin Science & Technology Co., Ltd.
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2019 Version

Description:

The uSat terminal is a compact and AI technology complying VSAT terminal. This is a completely new and novel antenna system designed and produced for a new generation of flat- type terminals. All components – antenna panel, RF unit, satellite router or receiver, LAN wireless devices and power supply are integrated into a flat compact terminal enclosure and covered by a special metal shield.

The uSat has completely changed the form of the standard parabolic antenna systems that have been used for satellite communication for 60 years. The uSat terminal provides users of broadband satellite communication with a new, unique system that is both easy to deploy and operate. It aims to replace parabolic-shape antenna products that have been characterized by split type of installation, operation, debugging and maintenance.

Due to fast, simple and easy deployment, the uSat flat portable terminals are suitable for emergency services, disaster recovery, military, security, government and enterprise communication applications. Portable uSat flat terminals can be deployed within a very short time to achieve reliable data, voice and video transfer services in areas without terrestrial networks or in places where a temporary communication is required.

Features:

* Ultra-light and ultra compact Ku band terminal
*AI technology complying to auto-tracking mechanism
* Plug and Play (AC, DC optional)
* All in one with flat panel, modem, BUC, LNB, Wi-Fi, power supply (AC, DC optional)
* Free of maintenance
* Working for IOT and Broadband Access

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Specification:

Item		uSat Flat-Panel Foldable Terminal
Model No.		ZL60P-E
Antenna Type		Slotted waveguide array antenna
Equivalent to parabolic antenna size		0.6m
Antenna Efficiency		≥85%
Frequency Range	Tx	13.75~14.50GHz
	Rx	10.95~12.75GHz
Polarization		Linear
Receiving Gain		≥35dBi
Transmitting Gain		≥36dBi
G/T		13dB/K
First Sidelobe		≥15dB
Satellite Acquisition		Automatically pointing to satellite, level error<0.2dB
Azimuth Range		±70°
Elevation Range		0° ~ 90°
Polarization		±50°
Power Supply		AC 90-264V (DC 24V ±5% Optional)
Max Power Consumption		85W (with 3W BUC)
		120W (with 8W BUC)
Terminal Dimensions		(L×W×H): 620×275×350 (Folding state)
Total Terminal Weight (not including cables)		≤15Kg
Wind (Operational)		20.8m/s (74km/h)
Operational Temperature		-25°C to +50°C
Ingress Protection		IP-66
Humidity		0 ~ 95%
Typical Satellite Modem		Any Modem whose size is below 240x200mm*
Typical BUC		3W or 8W
Typical LNB		PLL LNB 30K for TDMA systems PLL LNB 5K for SCPC systems
Wireless Router		Supported protocols: IEEE 802.11b/g/n at 2.4GHz
LAN Port (RJ45)		Gigabit Ethernet
Bluetooth Device		v.2.0
GNSS Device Supports		GPS/GLONASS/BeiDou-2/Galileo

* According to customer's requirements

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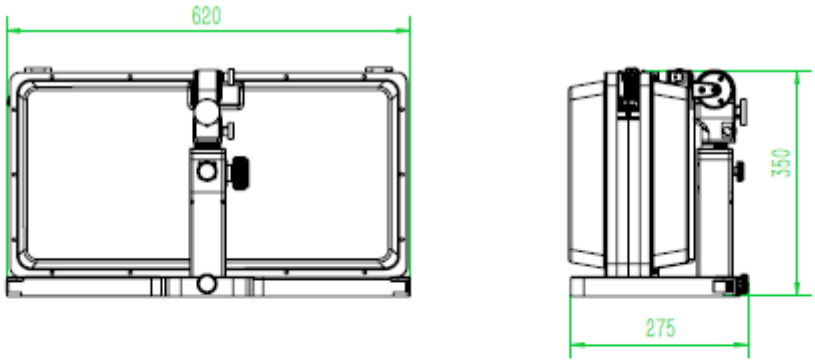
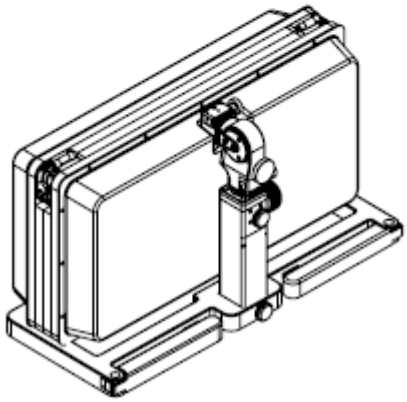
Terminal Dimensions:





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