

## China Starwin uSat Flat-Panel Portable (Auto) Terminal FL60P-E Datasheet



### Description

The uSat terminal uses an advanced and ultra-modern high-gain flat array antenna system. This is a completely new and novel antenna system designed and produced for a new generation of flat-type integrated satellite communication terminals. All components – antenna system, 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 and TV for many years. The uSat terminal provides users of satellite communication and television 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.

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## Features:

- \* All-in-one, fully integrated flat panel antenna, Modem, BUC, LNB, WiFi, Power Supply
- \* Higher gain efficiency
- \* Small Size, Light weight for backpack
- \* One Key Ease of operation
- \* Secure satellite lock in 3 min via mobile app connected with terminal through bluetooth
- \* 3.1 inch OLED display for quicker pointing satellite and checking real time working status

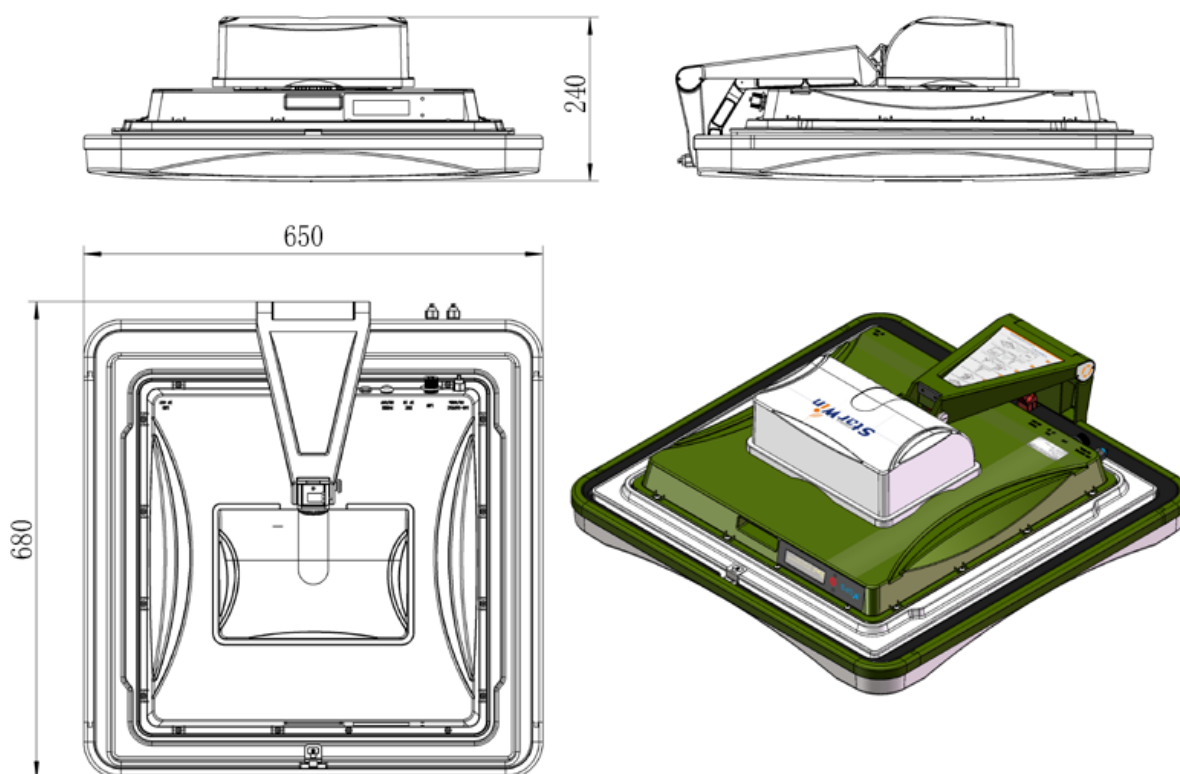
## Specification:

Item	uSat Flat-Panel Portable (Auto) Terminal	
Model No.	FL60P-E	
Antenna Type	Slotted waveguide array antenna	
Equivalent to parabolic antenna size	0.6m	
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	Unlimited, fine tune ±80°	
Elevation Range	7° ~ 90°	
Polarization	±110°	
Power Supply	AC 90-264V (DC 24V ±5% Optional)	
Max Power Consumption	100W (with 3W BUC)	
	120W (with 8W BUC)	
Terminal Dimensions (not including cables and backpack)	(L×W×H): 680×650×240	
Total Terminal Weight (not including cables and backpack)	18 Kg (Max)	
Wind (Operational)	14m/s (50km/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

### Terminal Dimensions:



**Terminal Package:**



EPP Case



Backpack

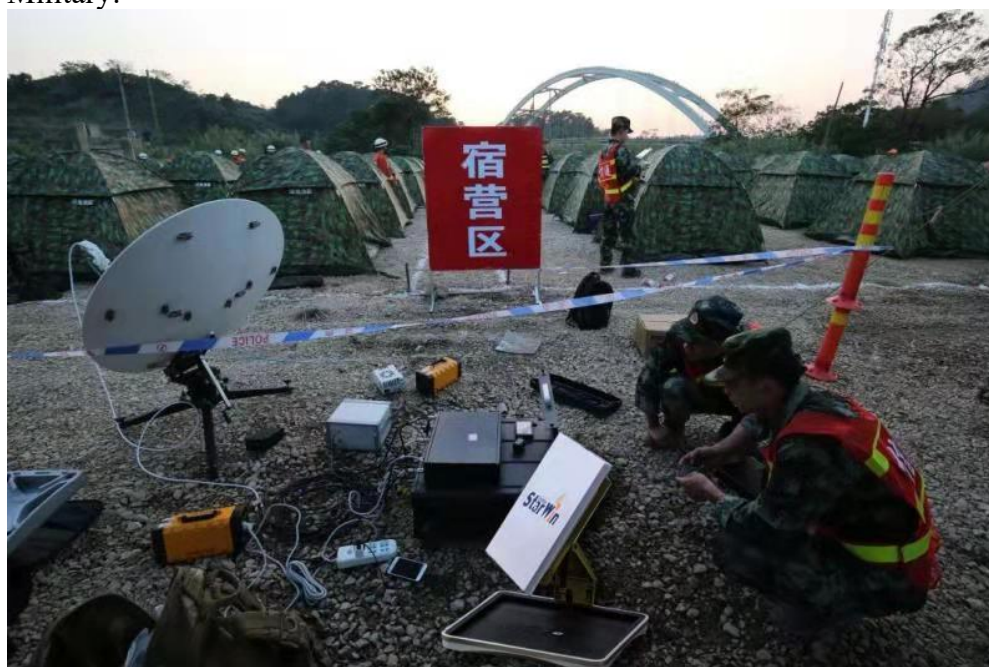
Item	Description	L (mm)	W (mm)	H (mm)	Vol. (m <sup>3</sup> )	N.W. (kg)	G.W. (kg)	Qty	Pkg Form	
1	Auto Flat Panel Portable Terminal with Case Terminal Serial No.	750	810	300	0.182	17.50	23.00	1	Expanded Polypropylene Box	
2	Backpack	200	200	650	0.026	2.50	4.00	1	Carton	
<b>TOTAL</b>					<b>0.208</b>	<b>20.00</b>	<b>27.00</b>	<b>2</b>		
<b>Total Packages: 2</b>		<b>Total Vol.: 0.208cbm</b>			<b>Total N.W.: 20.00kgs</b>			<b>Total G.W.: 27.00kgs</b>		

## Application Case:

Emergency rescue:



Military:



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Outdoor adventure



Communication:



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Personal application:



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