

Starwin Integrated Broadband Ku-Band VSAT Antenna



- Integration: Antenna, RF, Baseband and Power supply are integrated into a whole miniaturization: smaller than parabolic terminal
- Lightweight: Lighter than parabolic shape terminal
- Convenience: Easy to carry, deploy, stow, transport and maintain
- Standardization: It is suitable for integration of small-dimension baseband equipment of mainstream equipment manufacturers.
- Economy: Cost performance is higher than the traditional form terminals

FL30P series integrated satellite broadband Terminal is a satellite communication solution independently developed and intellectual property rights by China Starwin.

FL30P series integrated satellite communication terminal has completely changed the standard parabolic form used for satellite communication for a long time, and is the real next generation of satellite communication terminal.

The Overall Solution of High Integration

FL30p integrated satellite broadband portable terminal adopts advanced high gain slotted waveguide array antenna and integrates necessary components of satellite communication: Antenna system, RF unit, Servo system, Satellite modem, Wireless router and Power supply system, which makes FL30P completely separated from the traditional Parabolic form, with a simpler appearance and structure, and more convenient for transportation and operation which completely solves the problem that the traditional satellite portable station system is not portable.

Easy to Use Operation Experience

The operation interface design of FL30P integrated satellite broadband portable terminal is based on the simple and intuitive user experience. The terminal does not need any assembly, and it is simple, convenient and compact for the satellite pointing. Even the personnel without the professional background of satellite communication or the experience of using the satellite portable station can complete all operations only by checking the operation instructions or simple training.

Highly Reliable Maintenance

The traditional parabolic antenna form of the split, semi-finished satellite portable station needs more than one person to cooperate in transportation, temporary assembly, which is easy to cause damage to the components. The integrated design of FL30P integrated satellite broadband portable terminal reduces the failure point to the greatest extent, and has high reliability, which can be transported and used by one person.

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Main Technical Specifications

Name	Integrated Satellite Broadband Portable Terminal
Model	FL30P-M
Antenna Type	Slotted Waveguide Array Antenna
Equivalent Aperture	0.3m
Antenna Efficiency	≥85%
Frequency Range	Rx: 10.70~12.75GHz
	Tx: 13.75~14.50GHz
Polarization	Dual Linear Polarization
G/T	≥10dB/K(25°C)
Gain	Rx: ≥32.5dBi@14.5GHz
	Tx: ≥31.3dBi@12.75GHz
First Sidelobe Az Plane	≤-14dB
Pointing Mode	Manual
Pointing Time	3 Minutes (typical)
Azimuth Range	Unlimited, fine tuning ±5°
Elevation Range	Coarse tuning 10°~90°, fine tuning ±5°
Polarization Range	±70°
Satellite Modem Configuration	Select models according to customer requirements, such as IQ200, Newtec2500, Newtec2510, UHP210/220, etc
BUC	16W (8W optional)
Power Supply	DC 24V ±5%, built in battery 240WH
Power Consumption	150W(16W BUC, Max)
Dimension	L: 385mm W:345mm H: 80mm (Stowing)
Weight	6.5 Kg (typical configuration)
Ingress Protection	IP67
Wind Resistance	Level 7 wind works normally
Temperature	-25°C~+50°C
Humidity	0~95%
Others	Built in WIFI and Bluetooth function

Application

FL30P integrated broadband portable terminal can provide high-speed data channels for video, voice and data. It is applicable to the emergency communication scenes of the army, public security, fire protection and government emergency agencies, and widely used in the fields of earthquake relief, emergency repair of grid lines, flood control and drought relief, news gathering, etc. When the terrestrial network communication blind area and the temporary need to establish a special communication network, the network channel can be quickly opened to provide a reliable transmission link for various services.

About us

China Starwin Science&Technology Co.Ltd (China Starwin) is well positioned to provide cost & high effective Satcom solutions for Chinese and global satellite communications requirements. As a leading flat panel terminal and antenna manufacturer, Starwin always continue to devote to the Innovative engineering solutions by R&D, manufacturing, sales of evolutionary flat panel terminal whether in fixed , mechanically steering or Electronically Steering, OTM antenna, Mobile Satellite Receive Only antenna and VSAT Ka, Ku Antenna etc. Starwin flat panel terminal is key featured with high integrated ,smart &smaller with high reliability and cost effectivity, has already gain world wide recognition. All these make Starwin to bring innovative satcom terminal with good user experience to the global communication industry to gain high recognition from long term sound partnership with satellite operators and strategic partner- Modem system supplier and also Starwin has established worldwide distributors network in North America ,South America and Middle America , MENA and South East Asia etc.

Starwin will continue to devote to advance world Satellite communication industry and benefit more customers and end users by Make VSAT Terminal Smart & Fast and Make Satellite Communication Simple & Easy.

