

LP85 / LP100

85cm / 1m Military Grade

Ku- or Ka-band Man-Pack Antenna System



Aptus

- 85cm & 1m Auto Acquire Antenna
- Automatic Acquisition and Tracking 2-axis motorized pedestal
- Quick Deploy and Commissioning
- Fail-Safe Operation with Manual Pointing
- Reflector Optimized for Both Ku-and Ka-Band
- Ruggedized Lightweight Structure
- Remote Control via Web-based Smart User Interface
- Man-Portable Package & Airline Checkable

LP85 / LP100

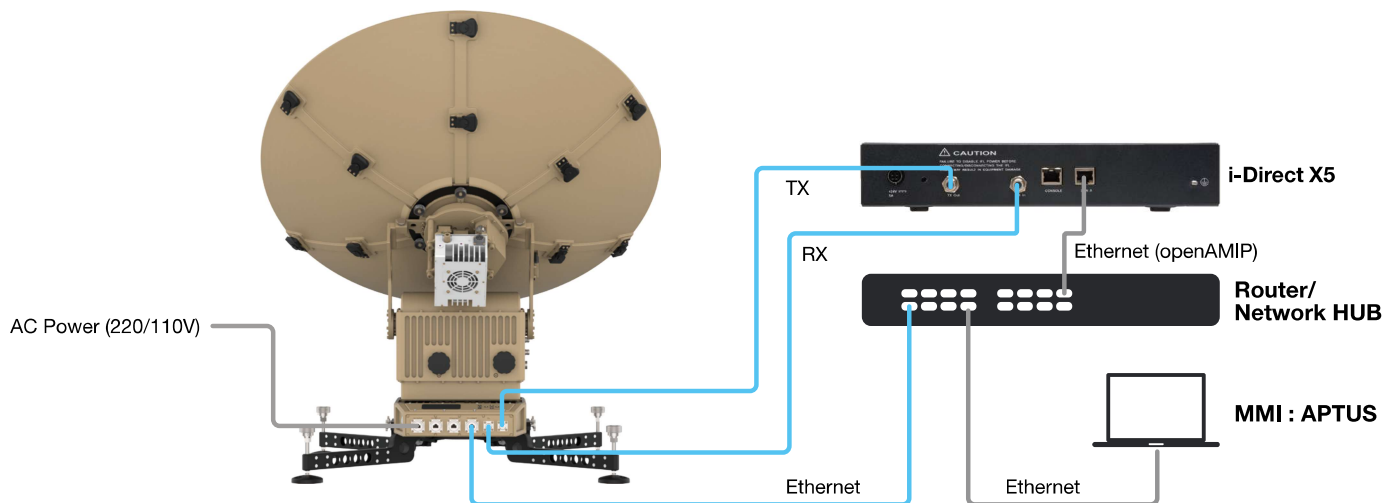
85cm / 1m Military-Grade Ku- or Ka-band Man-Pack Antenna System

Technical Specifications

Size & Weight	LP85	LP100
Reflector Diameter	85 cm	105 cm
Weight	45.5 Kg (Antenna only)	47 Kg (Antenna only)
No. of Packages	2 packages	2 packages
RF Specification - Ku-band		
TX Frequency	13.75 GHz ~ 14.5 GHz	13.75 GHz ~ 14.5 GHz
TX Gain	> 39.0 dBi	> 41.0 dBi
RX Frequency	10.95 GHz~12.75 GHz	10.95 GHz~12.75 GHz
RX Gain	> 37.5 dBi	> 39.5 dBi
G/T	>17.0 dB/K @ 11.85 GHz	>18.4 dB/K @ 11.85 GHz
VSWR	1.5 : 1	1.5 : 1
BUC Options	8W/16W EXT	8W/16W EXT
LNB	Intellian Global PLL LNB	Intellian Global PLL LNB
Polarization	Linear	Linear

Control Specification	
Azimuth	±100°, Motorized
Elevation	5°~90°, Motorized
Pointing Accuracy	≤0.2° (rms)
Power Input	90~260V AC @47~64 Hz
Environmental Specification	
Temperature	Operational : -20°C ~ +60°C Storage : -40°C ~ +70°C
Wind Loading	Operational : 14 m/ sec Survival : 17.8 m/ sec
Vibration (Cargo Transportation)	MIL-STD-810G 514.6C
Shock	MIL-STD-810G 516.6
Humidity	MIL-STD-810G 507.5
Water Proof	IP65
EMI/EMC	KN301489-1

System Diagram



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LP100

1m Military Grade

Ku- or Ka-band Man-Pack Antenna System

Aptus

- 1m Auto Acquire Antenna
- Automatic Acquisition and Tracking 2-axis motorized pedestal
- Quick Deploy and Commissioning
- Fail-Safe Operation with Manual Pointing
- Reflector Optimized for Both Ku-and Ka-Band
- Ruggedized Lightweight Structure
- Remote Control via Web-based Smart User Interface
- Man-Portable Package & Airline Checkable
- Dual Power Input as Standard - AC or DC



LP100

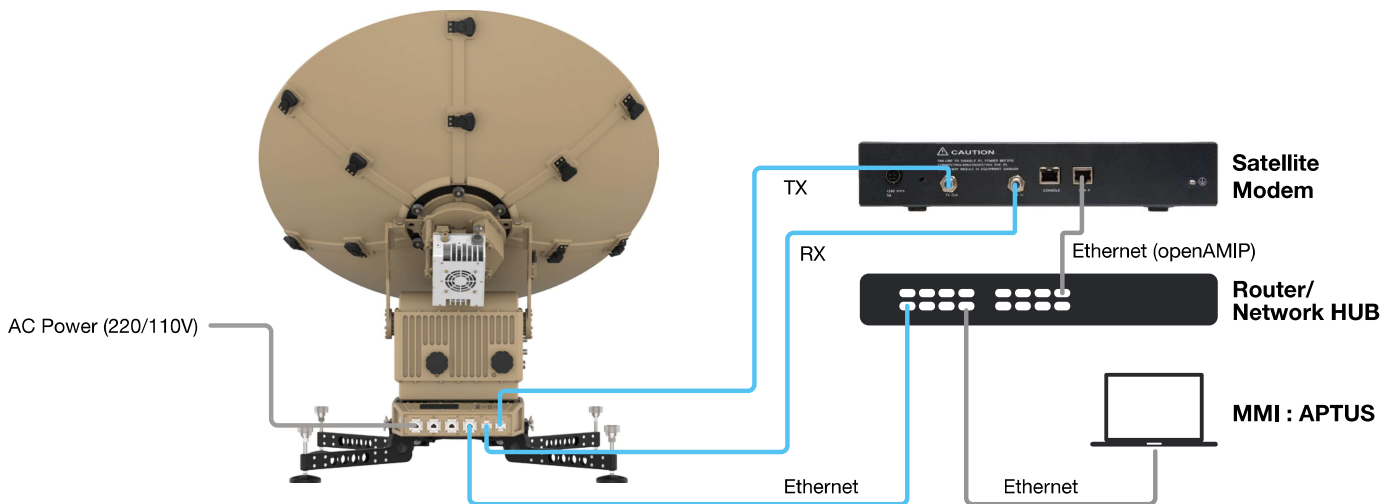
1m Military-Grade Ku- or Ka-band Man-Pack Antenna System

Technical Specifications

Size & Weight		
Reflector Diameter	105 cm	
Weight	47.8 Kg (Antenna only)	
No. of Packages	2 packages	
Package Details		
Package1	Description	Includes pedestal
	Size	560 X 670 X 550 mm
Package2	Description	Includes Reflector, Feed, RF assembly and Support leg
	Size	660 X 720 X 640 mm
RF Specification - Ku-band		
TX Frequency	13.75 GHz ~ 14.5 GHz	
RX Frequency	10.95 GHz~12.75 GHz	
VSWR	1.5 : 1	
BUC Options	8W/16W EXT	
LNB	Intellian Global PLL LNB	
Polarization	Linear	

Control Specification	
Azimuth	±100°, Motorized
Elevation	5°~90°, Motorized
Pointing Accuracy	≤0.2° (rms)
Power Input	90~260V AC @47~64 Hz
Environmental Specification	
Temperature	Operational : -20°C ~ +60°C Storage : -40°C ~ +70°C
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LP100

1m Mil-Grade

Ku-band Flyaway 안테나

Aptus

- 1m 반사판의 초경량 휴대용 Flyaway 안테나
- 2축 구동부를 이용한 자동 위성 탐색 및 추적기능 탑재
- 신속하고 간편한 설치 및 개통
- 유사시 수동 핸들로 위성 지향 가능
- 이중 주파수 (Ku-Band/ Ka-Band)에 최적화된 반사판 사용
- 고강도 경량화 구조
- 스마트한 원격 제어 Web 기반 User Interface 기능
- 1인 운반이 가능한 35kg 이하의 소프트 패키지 (2개의 패키지)
- 이중 전원 공급 가능 (AC 또는 DC 전원 사용 가능)
- 100% 순수 국내 기술로 개발 제작 (한글지원)



Intellian LP100 Flyaway Antenna

I 주요 제원

크기 & 무게		
반사판 지름		105 cm
무게		47.8 Kg (Antenna only)
패키지		2 packages
패키지 규격		
패키지 1	구성	Includes pedestal
	사이즈	560 X 670 X 550 mm
패키지 2	구성	Includes Reflector, Feed, RF assembly and Support leg
	사이즈	660 X 720 X 640 mm
RF 특성		
TX 주파수		13.75 GHz ~ 14.5 GHz
RX 주파수		10.95 GHz~12.75 GHz
VSWR		1.5 : 1
BUC		8W/16W EXT
LNB		Intellian Global PLL LNB
편파		Linear

제어 특성	
방위각	±100°, Motorized
앙각	5°~90°, Motorized
추적정밀도	≤0.2° (rms)
입력전원	90~260V AC @47~64 Hz or 24V DC
환경 특성	
온도	Operational : -20°C ~ +60°C Storage : -40°C ~ +70°C
풍속	Operational : 14 m/ sec Survival : 17.8 m/ sec
진동 규격	MIL-STD-810G 514.6C
충격 규격	MIL-STD-810G 516.6
습도	MIL-STD-810G 507.5 @ 95%
방수/방진 규격	IP65
전자기 적합성	KC, KN301489-1(육상용)

