



The combat proven SWE-DISH IPT Mil Suitcase satellite system is the most compact and quickest-to-air system on the market today. Easy, one-man operation and exceptional technical performance allow secure 4 Mbps IP broadband transmission, 10 Mbps broadband transmission using the L-band interface, from anywhere. Military units, government agencies and rescue organizations worldwide rely on the IPT Mil Suitcase.

EASY TO USE AND QUICK TO AIR

The IPT Mil Suitcase is deployed for live satellite transmission using a unique point & shoot system. The desired satellite is simply selected from a list and a pointing solution is automatically calculated. Inbuilt GPS receiver, electronic compass and a fully motorized antenna then assures trouble-free antenna pointing. The IPT Mil Suitcase automatically peaks towards the selected satellite and may optionally use an ASCII string from a hub for 100% assured identification.

Parameter set up, monitoring and antenna control is achieved through a web based graphical Man-Machine Interface (MMI) in the browser on your laptop. The laptop is connected to the IPT Mil Suitcase using the same standard LAN port used for IP transmission. The operator needs a minimum of training and no expertise to operate the system, and can concentrate on the task at hand.

IP BROADBAND CAPABILITY

The system allows 4 Mbps duplex transmission of IP standard data, voice and video. With its 10/100 base-T port, the system works as an ordinary LAN for email, FTP, VoIP and data streams. As any standard IP traffic this can be encoded. A serial EIA-530 interface allows military standard communication equipment, e.g. for bulk encryption. An L-band port and Turbo Product Coding is included as standard. The Suitcase is compatible with other base band equipment e.g. different PROMINAs and TDMA systems e.g. iDirect and DVB-RCS.

COMPACT

Measuring just 70x47x31 cm (27.6x18.5x12.2 in) and a total weight of approximately 39 kg (86 lbs) the IPT Mil Suitcase is scarcely bigger than a hand baggage. It can easily be made compatible with the IATA weight and size concept.

RUGGED AND DEPENDABLE

The IPT Mil Suitcase is designed to meet military standards regarding performance, usage and ruggedness. It is fully enclosed in a tough carbon fiber and aluminum carrying case. It is combat proven and have been used during the Iraqi Freedom and the Afghanistan conflict.

KEY FEATURES

- Quick to air - less than five minutes to deploy using point & shoot
- Portable - suitcase size and compatible with the IATA weight and size concept
- IP broadband capable 4 Mbps duplex, 10 Mbps broadband capable using the L-band interface
- Easy to use - web based MMI, GPS, electronic compass, auto peaking and fully motorized antenna
- LAN standard - ordinary LAN 10/100 base-T interface
- Serial EIA-530 interface for bulk encryption and L-band port
- Combat proven and rugged - meets mil standards



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SPECIFICATIONS: SWE-DISH® IPT MIL SUITCASE

ANTENNA PERFORMANCE		IEC 60068-2-32 Ed	Free fall																
Antenna Type	Gregorian offset segmented into four pieces	IEC 60-2-52	Salt mist																
Sidelobe performance	29-25 log θ dBi in azimuth	IEC 60068-2-68	Sand and dust																
Antenna Aperture	0.90 x 0.66m (35.4 x 26.0 in)	Continuous Operation	>10.000 antenna and polarization motion cycles during 15 days continuous operation																
Polarization	Linear	Type Approvals	FCC license (E030197), Eutelsat (EA-V042), Intelsat (IA097AA0), EuropeStar (ES-ME-39), Hispasat (HIS-ET-96221-10026-SWE) IPStar, Shin Satellite and AsiaSat																
Rx Frequency	10.95–12.75 GHz.																		
G/T	19.3 dB/K @ 11.0 GHz 20° elevation																		
Tx Frequency	13.75-14.5 GHz																		
EIRP Capability	Up to 54 dBW																		
Antenna Positioning	Motorized positioning through GPS, electronic compass and inclinometer																		
Azimuth Range	$\pm 30^\circ$ in 0.1° steps																		
Elevation Range	5°-90° in 0.1° steps																		
Polarization Range	190° (-30° to 160°) in 0.1° steps																		
Transmit gain at midband	38.4 dBi																		
Receive gain at midband	38.2 dBi																		
3dB beamwidth in azimuth	1.53° @ 14.25 GHz																		
First sidelobe level in azimuth	-21 dB @ 2.4° relative to mainlobe peak in azimuth																		
Polarization performance	XPD > 30 dB within 1 dB cone																		
Beam deflection at 22mph	<0.1° in azimuth																		
Beam deflection at 45mph	<0.4° in azimuth																		
OPERATIONAL CONDITIONS		INTERFACES, TRANSMIT, RECEIVE AND CODING MODES																	
Operational Temperature	-30°C to +50° C (-22°F to +122°F)	TCP/IP LAN	10/100 base-T. MIL-C-26482 series 1 connector IP gateway for applications like video streaming, Internet connection, E-mail (SMTP/POP) and ftp file transfer																
Operational Humidity	95% non-condensing	Serial Data Interface	EIA-530. Possible to connect external data communication equipment																
Operational Wind Speed	Max 10 m/s (22.4 mph), anchored unit	L-band interface	Included																
Operational Altitude	Max 3,000 m (9,850 ft)	Transmit Modes	SCPC																
Rainfall	Max 100 mm (4 in) rain per hour	Modulation	BPSK, QPSK, OQPSK and 8PSK																
Storage Temperature	-40°C to +70°C (-40°F to +158°F)	Coding	Viterbi and TPC @ rate 1/2, 3/4, 7/8 Trellis @ rate 2/3																
Sealing Class	IP65, including Power Supply Unit	Built-in TCP Accelerator																	
Deployment and Set-up	< 5 minutes	SSPA AND LNB PERFORMANCE																	
MECHANICS		SSPA extended Ku-Band	13.75-14.50 GHz																
Physical Size	70x47x31 cm (27.6x18.5x12.2 in) when stowed for transportation	Output Power	P _{sat} / P _{1dB} : 45.5/44.5 (35/28) dBm (W)																
Weight	Approximately than 39 kg (86 lb) depending on options. IATA compatible	Gain Flatness	± 1.0 dB full band																
POWER SUPPLY UNIT		Gain Slope	+0.3 dB per 40 MHz																
AC Supply	100-240 V, AC 50-400 Hz, 750 W	Gain Variation	± 1.0 dB at -40°C to +55°C (-40°F to + 131°F)																
DC Supply	21-32 V DC, 750 W	Gain Adjustment	10 dB, 0.1 dB resolution																
Output	26 V DC, max 27 A	Noise Figure	8 dB at max gain																
ENVIRONMENTAL STANDARDS & TEST		<table border="1"> <thead> <tr> <th></th> <th>LNB1*</th> <th>LNB2</th> <th>LNB3</th> </tr> </thead> <tbody> <tr> <td>RF Frequency</td> <td>10.95-11.70 GHz</td> <td>11.70-12.20 GHz</td> <td>12.25-12.75 GHz</td> </tr> <tr> <td>IF Frequency</td> <td>950-1.700 MHz</td> <td>950-1.450 MHz</td> <td>950-1.450 MHz</td> </tr> <tr> <td>Local Frequency</td> <td>10.00 GHz</td> <td>10.75 GHz</td> <td>11.30 GHz</td> </tr> </tbody> </table> <p>*Three different LNBs are delivered as standard together with the military IPT Mil Suitcases. LNB1 is mounted as standard from factory. It is easy to change LNBs in the field.</p>			LNB1*	LNB2	LNB3	RF Frequency	10.95-11.70 GHz	11.70-12.20 GHz	12.25-12.75 GHz	IF Frequency	950-1.700 MHz	950-1.450 MHz	950-1.450 MHz	Local Frequency	10.00 GHz	10.75 GHz	11.30 GHz
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IEC 68-2-14	Change of temperature, -40°C to +70°C (-40°F to 158°F)	Local Stability	± 3 ppm																
IEC 60068-2-64 Fdb	Random vibration broadband	Noise Figure	0.8 dB typical at 25° C (77° F)																
IEC 60068-2-27 Ea	Shock	Conversion Gain	60 dB typical at 25° C (77° F)																
IEC 60068-2-29 Eb	Bump	Conversion Gain Variation	Max 2dB in any 50 MHz segment over the frequency band																
IEC 60068-2-31 Ec	Drop and topple	COMPATIBILITY (NOT EXHAUSTIVE)																	
		Cryptos	KIV-7, KIV-19, KG-175, BID-2080																
		Other	Base band equipment e.g. Different PROMINAs and TDMA systems e.g. iDirect and DVB-RCS																

Specifications are subject to change without notice, and this datasheet will not form part of any contract.