

SINGLE PACKAGE TRANSCEIVER POWER OUTPUT FOR C BAND

Power (W)	1mW	2	5	10	20*	50*	140*	200*
Gain (dB)	25	58	62	65	68	71	75	75
P1dB (dBm)	30	33	37	40	43	47	51.2	52.3
Gain Flatness (5.850 – 6.725 GHz) BW					±1.00 dB Max			
Dimension (cm)	25Lx 21W x 9.8H				39.6L x 22.3W x 20.8H		25.4L x 49.5W x 16.5H	
Weight (Kg)	7.5				12.5		14.4	

SINGLE PACKAGE TRANSCEIVER POWER OUTPUT FOR Ku BAND

Power (W)	1mW	2	4	8	16*	25*	40*	80*
Gain (dB)	25	58	61	64	67	69	71	74
P1dB (dBm)	30	33	36	39	42	44	46	49
Gain Flatness 500 MHz BW 36 MHz BW					±2.00 dB Max ±1.50 dB Max			
Dimension (cm)	25Lx 21W x 9.8H				31L x 24W x 10H		23L x 34W x 21H	
Weight (Kg)	7.5				8		13	

* Additional case required for booster with 1mW driver.

LOW NOISE BLOCK (LNB)

RF Input Frequency	Full C band / Full Ku Band
Gain	55dB Typ.
Gain Flatness (36 MHz BW)	± 0.25 dB Typ.
Noise Temp @ 25°	35°K Max

SATELLITE MODEM

IF Output / L-Band	50 to 90 MHz/ 100 to 180 MHz
IF Input / L-Band	50 to 90 MHz/ 100 to 180 MHz
Output Level Control	/950 to 1750 MHz programmable in 0.1 dB steps over 40 dB from +5 to -35 dBm
Input Carrier	-84 to -20 dBm
Modulation Technique	BPSK or QPSK
Data Rate	Programmable in 1 bps increments
Forward Error Correction	1/2, 3/4, 7/8
Scrambler Type	IESS308/309, V.35, Intelsat
Coding Techniques (Optional)	Reed Solomon, Turbo Coding

BEACON RECEIVER

- Satellite Pointing Device

PACKET SWITCHED MULTIPLEXER

- Analogue Voice Channels using FXS, FXO and E&M
- Digital voice or Data Channels
- T1 Interface Channels 1.544 Mbps
- E1 Interface Channels 2.048 Mbps
- Data Communications serial Channel 2.045 Mbps
- ISDN BRI, PRI support

ROUTER

- Ethernet LAN Support for Bridging and Routing operations

OPTIONAL EQUIPMENT

- Video Conferencing Kit
- Redundancy Systems
- VoIP
- Vehicular Mounts
- Encryption Module
- 3 Phase Power Generator Module

Note : All specifications are subject to change without notice.

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 **Singapore Technologies Electronics**
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SWIFTLET Flyaway

Satellite Communication System for
Satellite News Gathering
& Disaster Relief



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Satellite communications from the most remote corners on earth

Agilis Swiftlet Flyaway Satellite Communication System is a comprehensive, compact and transportable Satellite communication solution, providing seamless transfer of data, images, videos and telephony.

Designed and integrated into a single unit, the Swiftlet particularly built for rapid and reliable deployment in the field. Easily set-up by one person, Swiftlet is an excellent choice for use especially in, emergency telephony restoration, disaster relief and live transmission for Newsgathering services from remote sites.

Specifically to meet the needs of emergency situations under adverse conditions, Agilis full-featured flyaway and rapid deployment systems represent the ultimate and a cost-effective solution. Housed in a rugged case, all equipments are integrated and can be customized to exact specifications. Antenna options are designed to be of the lightest possible weight, whilst maintaining structural integrity.

SWIFTLET Satellite Communication System Features

- **Comprehensive** – set of modules ready-made or custom-built to serve most of your transmission and communication needs with enhanced performance and reliability
- **Lightweight** – lightest possible weight with structural strength and integrity
- **Compact and Transportable** – can be packed as airline checked baggage (complies to IATA regulations)
- **Quick Deployment** – can be set up within 15 minutes
- **Rugged** – suitable for all weather and terrain
- **Prime Power** – operate on vehicle DC or prime AC

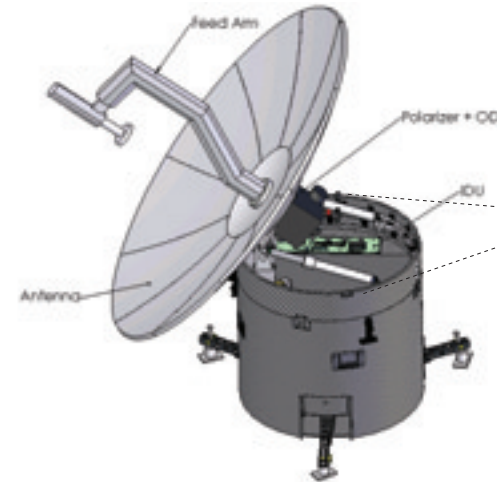
Applications

- Disaster relief
- Emergency telephony restoration
- "Live" satellite transmission and reception of videos, data and telephony in the field
- Connectivity to the PSTN, ISDN, Intranet and Internet

Enquiries

If you are interested to know more or would like a proposal for a solution, please contact us at AGILIS Communication Technologies Pte Ltd, swiftlet@agilis.stengg.com

¹ Access speed and connectivity are dependable on the eventual size of the terminal used.



"Base band / user interface integrated into case"

ANTENNA

C band Systems 1.9 M – 2.4 M
Ku Band System 1.05 M – 2.4 M

EQUIPMENT LIST

Case A Antenna Structure & Base band
Case B RF & Antenna Mechanism

FLYAWAY ANTENNA

System	C-Band		Ku-Band	
	1.9 Meter	2.4 Meter	1.9Meter	2.4Meter
Size (Diameter x Height)	Case A: 85cm x 66cm Case B: 85cm x 42cm	Available upon request	Case A: 85cm x 66cm Case B: 85cm x 42cm	Available upon request
Weight	Case A: 75Kg Case B: 65Kg	Available upon request	Case A: 75Kg Case B: 65Kg	Available upon request

SINGLE PACKAGE TRANSCEIVER

C Band		Ku Band	
Transmit		Transmit	
IF Frequency / L-Band	70/140 ± 18 MHz /140 ± 36 MHz (Optional)	IF Frequency / L-Band	70/140 ± 18 MHz /140 ± 36 MHz (Optional)
RF Transmit Frequency	Full C Band	RF Transmit Frequency	Ku Band
IF input / RF output Interface	50 Ω N-type Female	IF input / RF output Interface	50 Ω N-type Female
Receive		Receive	
IF Frequency / L-Band	70/140 ± 18 MHz /140 ± 36 MHz (Optional)	IF Frequency / L-Band	70/140 ± 18 MHz /140 ± 36 MHz (Optional)
RF Receive Frequency	Full C Band	RF Receive Frequency	Ku Band