(**GISS**)=

SMART

Wide range of different antenna size.

SMART by GISS is a compete FlyAway VSAT terminal, offering a wide range of configurations suited to each customer's requirements. It comes with motorized antenna of aperture of the customer's choice and Antenna Pointing Unit with auto-pointing feature as a standard, and can be equipped with Fiber Optic module, conventional IDU section, or No-IDU Modem Module with various modems. It is possible to intergrate network devices, UPS, and other required accessories.

## Advantages:

- Flexible configuration according to the customer's needs.
- Wide range of different antenna size.
- Bespoke IDU with Integrated Terminal Controller (ZKT) or No-IDU option.



Fiber Optic modules with L-Band signals transmission available.





- In-field, tool-less switching of the working band by changing only RF module.
- Motorizing and dedicated ACU with automated pointing feature as a standard.



- Intuitive local GUI and WEB interface.
- Powered from AC (mains) with UPS option.
- Packed with dedicated hard-case system.



Easily transportable.

## **SMART Technical specification**

Selection of SMART m	nodules							
Conventional SMART architecture with IDU				SMART No-IDU architecture				
Antenna of chosen aperture (motorized)				Antenna of chosen aperture (motorized)				
RF modules for chosen bands				RF modules for chosen bands				
ACU (Antenna Control Unit)				ACU (Antenna Control Unit)				
Bespoke IDU with ZKT				SMART No-IDU Modem Module				
Fiber Optic modules				Relevant cabling assembly (optional FO drum for distant network devices connection)				
Relevant copper or optic cabling assembly (in drums for IDU – ODU interconnection)			ng	Power supply system				
Power supply system				Hard-case packing system				
Hard	I-case packing s	ystem						
Antenna								
		Carbon Fiber						
Aperture		· · · · · · · · · · · · · · · · · · ·	1.2 m, 1.5 m, <b>1.8 m</b> , 2.0 m, 2.4 m					
Wor		С, <b>Х, Ки</b> , Ка						
Move	:	±180° (Azimuth) +5° - +90° (Elevatio				±90° (Polarization		
Cont RF module	trol option		Moto	orized (as a st	andard)	Manual (as	an option)	
		Х		К	u		Ка	
Transmit frequency		90 GHz .40 GHz		13.75 GHz to 14.50 GHz			30.0 GHz to 31.0 GHz	
Receive frequency		25 GHz .75 GHz		10.95 GHz to 12.75 GHz			20.2 GHz to 21.20 GHz	
Polarization type	RC	P / LCP		Lin	ear		RCP / LCP	
BUC		50 W, <b>100 W</b> , 150 W						
LNB		Single- or Multi-Band, depending on the configuration chosen						
ACU								
Automated point	• •	Possible w					ted modem signal	
Antenna control		Electronic adjustment of antenna position						
Remote control		M&C provided for: BUC, LNB, IDU (or Modem Module in No-IDU version), FO						
Local GUI		Display + Keyboard + LEDs and WEB interface Comes with dedicated AC power supply.						
Power				Comes with o	dedicated A	power supp	ly.	
No-IDU Modem modu	ule	A				Jacob et en en en	tente e contra da terte	
Functionality		A wide range of modems of the customer's choice and Ethernet switch. FO conversion available.						
Local GUI		Fully configurable via ACU by GISS and modem WEB interface In-field environment installation on the top of ACU module (tool-less).						
Installati	on	In-field e	nviron	iment installa	tion on the	top of ACU m	odule (tool-less).	
DU		A wide rep	an of a	cook mountod	madama of	the sustamor	/a abaica	
Modems		A wide range of rack-mounted modems of the customer's choice. election of rack-mounted network equipment, PacStar 400 series as a standard						
Network devices		(other network devices as an option).						
		Provides intuitive interface for crucial IDU devices management, provides communication with ODU, allows the whole VSAT control from IDU.						
User interface		Display + Keyboard + LEDs and WEB						
Power Supply		AC (mains), with UPS option						
Packing		In one or two rugged cases, depending on the configuration chosen.						
FO modules	-il-	0		1 4 4 5 -	AL 1= 12 - C -		u Circelati Eth	
Transmitted signals Working distance		2x L-Band (Rx and Tx) 1x 10MHz reference Up to 2x Gigabit Ethernet						
Cabling		Up to 10 km Single-mode, dual-fiber cable on a drum						
User interface		Controlled via ACU (ODU unit) or ZKT (IDU unit)						
Environmental			contro					
	Inliance			<u>к</u> л				
Standard compliance Operating temperature range		MIL-STD 810 -30 °C to 50 °C (-22 °F to 122 °F)						
Storage temperature range		-40 °C to 60 °C (-40 °F to 140 °F)						
Operational wind speed		45 km/h (28 mph), gusting to 72 km/h (45 mph)						
IP rating		IP65						
	0							













**GISS Sp. z o.o., Kosciuszkowcow St. 63, 04-545 Warsaw, Poland** T: +48 22 625 09 52 | F: +48 22 613 01 42 VoIP: +48 22 349 93 92 | E: info@giss.pl