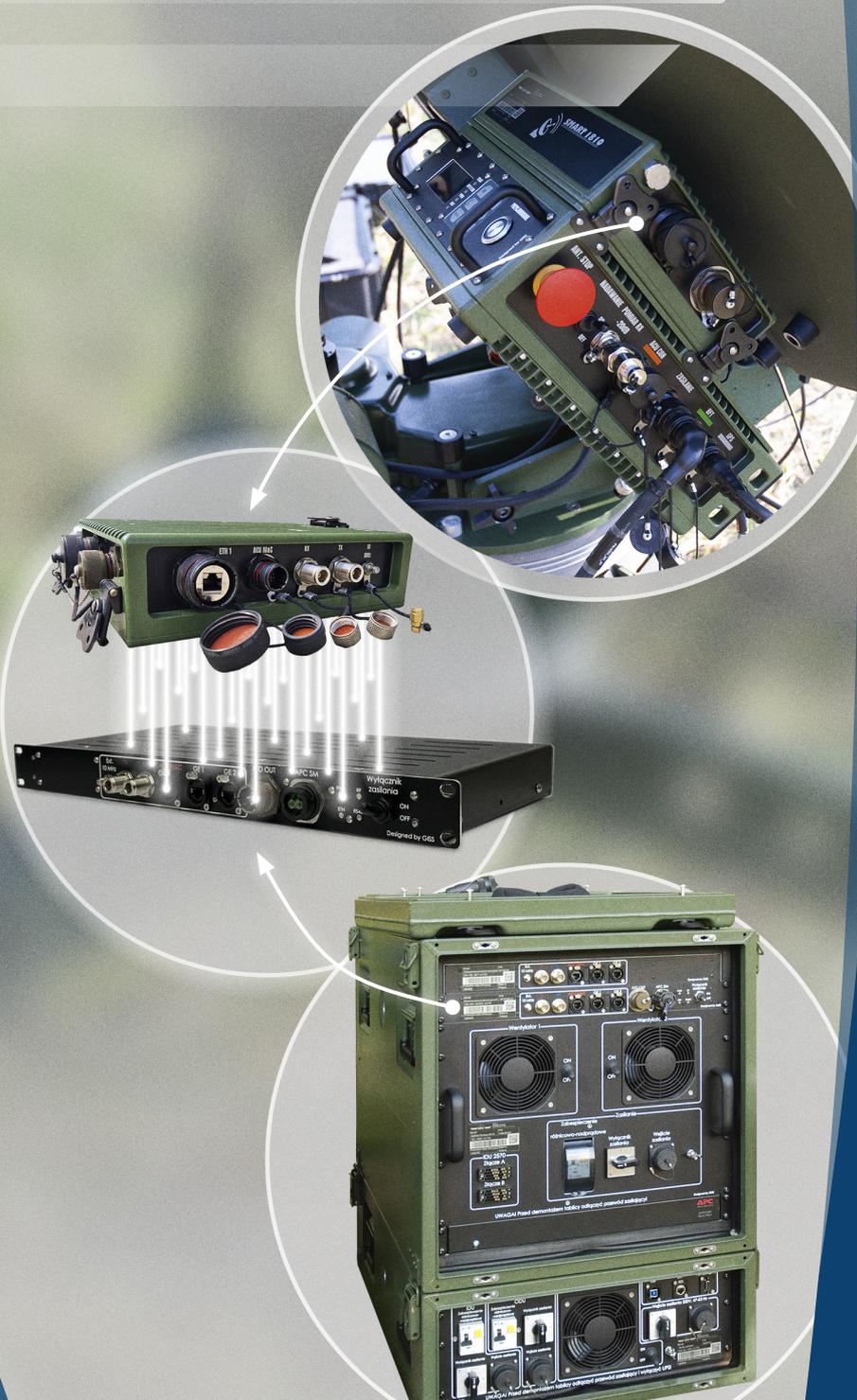


Converters Set Fiber Optic



Military-grade but lightweight and ergonomic design – reliable construction adjusted to operational conditions.

Optical Converters Set by GISS preliminary dedicated for SMART FlyAway terminals, became a solution that can be used in any application that requires L-Band signals transition on long distances. Additionally, the Set ensures transmission of 10MHz reference signal and one or two Gigabit Ethernet signals, using just two fibers.

Choosing this solution greatly reduces the number of cables in traditional IDU-ODU VSAT system configurations, resulting in a lighter and more user-friendly setup.

Advantages:

- Provides long-distance connection – up to 10 km.
- Various configurations depending on environmental conditions.
- Well-aligned IP rating, adjusted for IDU and ODU conditions.
- Rack-mounted, 1U IDU side.
- Quick, tool-less installation on the ACU by GISS ODU side.



- Only 2 single-mode fibers required for full-duplex communication.
- Analogue-manner signal conversion, no digitization noise added.

Power:

- ODU-FO – powered directly via ACU or using dedicated power supply.
- IDU-FO – rack-mounted and powered from mains.

Fiber Optics Converters Set technical specification

Key interfaces

User interface	Status LEDs	
	M&C connection with ACU by GISS	
Coaxial connectors	1x N-type connector Tx line	
	1x N-type connector Rx line	
	1x SMA connector for 10MHz	
Gigabit Ethernet connectors	Up to 2 RJ-45 connectors	
Other	Connectors for M&C and power delivery	

Environmental

	Rugged ODU module	RACK IDU module
Standard compliance	MIL-STD 810	MIL-STD 810
Operating temperature range	-30°C to 50°C (-22°F to 122°F)	10°C to 35°C (50°F to 95°F)
Storage temperature range	-40°C to 60°C (-40°F to 140°F)	0°C to 60°C (32°F to 140°F)
IP rating	IP67	IP30

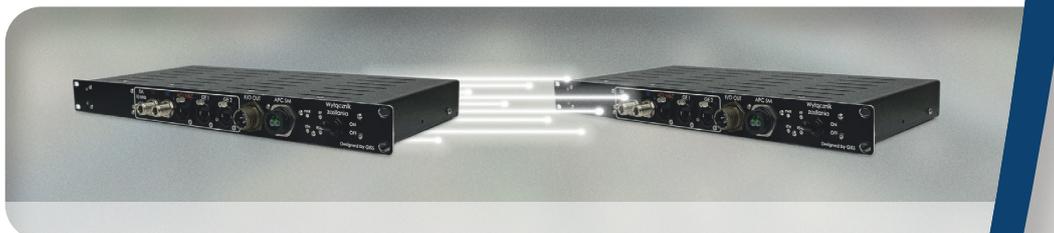
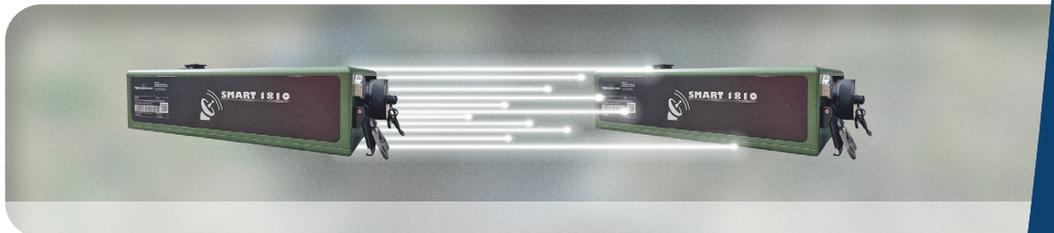
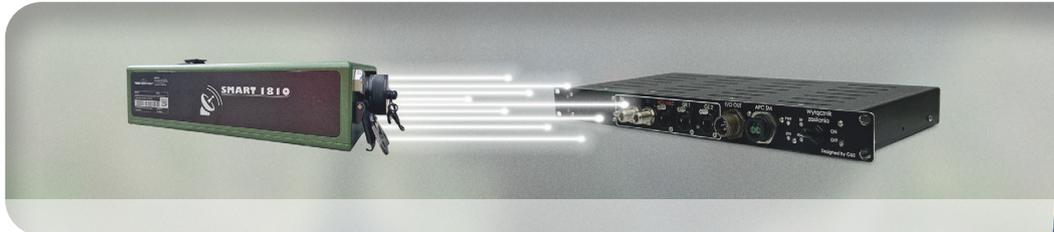
Mechanical parameters

	Rugged ODU module	RACK IDU module
Size	25.00 cm x 20.80 cm x 7.00 cm (9.84 in x 8.20 in x 2.75 in)	1U, 48.30 cm x 27.50 cm x 4.45 cm (19.00 in x 10.83 in x 1.75 in)
Weight	2.7 kg (5.95 lb)	2.5 kg (5.51 lb)
Mounting system	Tool-less, with latches	RACK mounted with screws

Electrical

Power input	80 – 240 VAC, 45 - 63 Hz
Power consumption	5 W

Possible connectivity schemes



GISS Sp. z o.o., Kosciuszkowc St. 63, 04-545 Warsaw, Poland

www.giss-satcom.com

T: +48 22 625 09 52 | F: +48 22 613 01 42 | VoIP: +48 22 349 93 92 | E: info@giss.pl