ACRS-IDU-V31

Redundancy controller 1:1 Cerberus Series indoor 1/3 rack

The 1/3 rack family of up/down/tlt converters is designed for the most challenging C/X/Ku/Ka-band professional & military satellite communication systems (ground, SOTP, SOTM, maritime, etc.).

Latest technology is applied to obtain the best power efficiency, phase noise, gain stability and spur rejection according to MIL-STD-188-164C. The 1/3 rack family is a high reliability solution designed for harsh environmental conditions, with every single production unit fully tested in an environmental chamber and delivered with a complete factory acceptance test report.

- ↘ Redundant operation 1:1 over two modules (online and standby mode)
- ↘ In case any alarm over online unit, automatically switch over standby module
- ↘ Complete remote via RS232-485, Ethernet and SNMPv2
- ↘ Local M&C with front keyboard & display
- ↘ Switch position indicator
- ↘ DC power supply from redundant modules

CERBERUS

Dog of the God Hades, known for his fierceness and his 3 heads, this indomitable dog guarded the gate and entrance to the underworld. That is why our family of indoor rack converters designed for maritime applications offers high performance frequency conversion in a very compact and versatile format.

Specifications

Specifications	C-band	X-band	Ku-band	Ka-band
Insertion losses	< 0.3 dB	< 0.4 dB	< 0.5 dB	< 1.0 dB
Amplitude flatness	< 0.3 dB	< 0.4 dB	< 0.5 dB	< 0.6 dB
Input/Output VSWR (50 Ω)	< 1.3:1	< 1.5:1	< 1.8:1	< 2.0:1
Isolation	> 70 dB	> 60 dB	> 60 dB	> 50 dB

Interfaces

All mating connectors provided

RF connectdors (C/X/Ku-band)	Type SMA(F) 50 Ω
RF connectors (Ka-band)	Type K(F) 50 Ω
M&C (RS-232/485)	D-Sub9
M&C (Redundancy)	D-Sub9
M&C (Ethernet/SNMPv2)	RJ-45
Front panel	Keyboard & display

Enviromental

Storage temperature	-40 ºC to +70 ºC
Operating temperature	0 ºC to +50 ºC
Relative humidity	up to 95%
Operating altitude	up to 3000 m
Shock & vibration	MIL-STD-810F Method 514.8 Procedure II
EMC	CE Mark ETSI EN 301 489-1 V.1.9.2

Mechanical

Size (LxWxH)	508 x 128 x 38.5 mm 20.0 x 5.0 x 1.5 in
Weight	2.0 kg 4.4 lbs
Compatible rack frames	ACRC-V31 (3 bays over 1U) ACRC-V62 (6 bays over 2U)

Order information

Part-number	Configuration
ACRS-IDU-V31-xA	Redundancy controller 1:1 for C-band modules
ACRS-IDU-V31-xB	Redundancy controller 1:1 for X-band modules
ACRS-IDU-V31-xC	Redundancy controller 1:1 for Ku-band modules
ACRS-IDU-V31-xD	Redundancy controller 1:1 for Ka-band modules