



The **sub-rack family** of up/down/tilt converters are 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 spurs rejection according to **MIL-STD-188-164C**. The sub-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.

## FEATURES

- 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 (RS232-485 & Ethernet) / local (front display) monitoring and control
- Switch position indicator
- DC power supply from redundant modules

## SPECIFICATIONS

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

## MECHANICAL SPECIFICATIONS

Dimensions .....	508 (L) x 128 (W) x 38.5 (H) mm / 20 (L) x 5.0 (W) x 1.5 (H) in
Weight .....	2.0 kg typ / 4.4 lbs

## ENVIRONMENTAL SPECIFICATION

Storage temperature .....	-40 to +70 °C
Operating temperature .....	0 to +50 °C
Relative humidity .....	up to 95%
Operating altitude .....	up to 3000 m

## INTERFACES

RF connectors C, X & Ku-band modules .....	Type SMA (F) 50 Ω
RF connectors Ka-band modules .....	Type K (F) 50 Ω
M&C (Main interface RS422/485) .....	D-Sub9
M&C (Redundancy interface) .....	D-Sub15
M&C (Ethernet/SNMP interface) .....	RJ-45

## OPTIONS

Redundancy switch controller 1:1 for C-band modules .....	ACRS-IDU-11-V31-xA
Redundancy switch controller 1:1 for X-band modules .....	ACRS-IDU-11-V31-xB
Redundancy switch controller 1:1 for Ku-band modules .....	ACRS-IDU-11-V31-xC
Redundancy switch controller 1:1 for Ka-band modules .....	ACRS-IDU-11-V31-xD
Rackmount frame compatible .....	ACRC-V31 (3 modules) / ACRC-V62 (6 modules)