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## ACCVR-CL-Ex-V31

C-band BDC Cerberus Series indoor 1/3 rack

The ACCVR-CL family of BDCs is designed for the most challenging C-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 ACCVR-CL 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.

- ➤ AC supply operation
- Sector Number of Sector
- Nedundancy operation available
- Standard M&C with serial port (RS232/485), Ethernet and SNMPv2
- Rack frames compatible with 3 bays (1U) and 6 bays (2U)
- High spur rejection performance



# 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.



#### Receiver

Input frequency	3.4 to 4.8 GHz
Input C-band VSWR (50 $\Omega$ )	< 1.3:1
Output frequency	950 to 1750 MHz
Output L-band VSWR (50 $\Omega$ )	< 1.3:1
Spectrum inversion	None
Max. input level without damage	0 dBm
PldB	> +18 dBm
Spurious signal related @ P <sub>OUT</sub> = 0 dBm	< -65 dBc
Spurious signal independent	< -75 dBm
LO leakage	< -80 dBm
TOI @ 2 carriers 0 dBm each	< -60 dBc
Gain @ min attenuation	35 ± 3 dB
Gain adjustment range	30 dB with 0.2 steps
Gain flatness	±1.0 dB over whole BW ±0.25 dB over 40 MHz
Gain stability (24 hours)	±0.25 dB @ constant T
Gain variation over temperature	±1.5 dB
Mute	> 60 dB
Noise figure @ min attenuation	< 15 dB
Image rejection	> 60 dB
Input & Output signal monitors	-20 ± 2 dBc

### Local Oscillator

Output phase noise (IESS-	308/309 – 12 dB)	
	10 Hz	-50 dBc/Hz
	100 Hz	-76 dBc/Hz
	1 kHz	-82 dBc/Hz
	10 kHz	-92 dBc/Hz
	100 kHz	-102 dBc/Hz
External reference (Auto selection on presence)		5 & 10 MHz
External reference level		+4 dBm ± 3 dB
Internal reference stability		
versus time per day		±1x10-9
	versus temperature	±5x10 <sup>-9</sup>

#### Enviromental

Storage temperature	-40 °C to +70 °C
Operating temperature	0 °C to +50 °C
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)

#### Interfaces

#### All mating connectors provided

RX input & monitor (C-band)	Type SMA(F) 50 $\Omega$
RX output & monitor (L-band)	Type SMA(F) 50 $\Omega$
LO monitor & Ext. Ref. input	Type SMA(F) 50 $\Omega$
M&C (RS-232/485)	D-Sub9
M&C (Redundancy)	D-Sub9
M&C (Ethernet/SNMPv2)	RJ-45
Power supply	IEC 320
Front panel	Keyboard & display

#### Power Supply

AC input voltaje	85-265 V <sub>AC</sub> (47-63 Hz)
Consumption	25 W

#### Order information

Part-number	Input	Output	Inversion	LO frequency
ACCVR-CL-E44-V31	3.4 - 4.2 GHz	950 - 1750 MHz	None	8.85/11.30 GHz
ACCVR-CL-E4-V31	3.4 - 4.2 GHz	950 - 1750 MHz	Yes	5.150 GHz
ACCVR-CL-E5-V31	4.5 - 4.8 GHz	950 - 1250 MHz	None	3.550 GHz

Any other frequency band or custom specification available under request. Please, contact factory. Specifications are subject to change without notice.

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