

# REDUNDANCY CONTROLLER

## OUTDOOR APPLICATIONS

ACRS-11-ODU



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The redundancy system controller ACRS-11-ODU integrates all the necessary functions to connect the L-Band Unit and Control Unit with external Up-Converters (BUCs) and Down-Converters (LNBs).

It includes a TX splitter, RX diplexer and internal microprocessor to control series interfaces RS-232 or RS-485. ACSR-11-ODU is designed for being installed over the antenna near to RF systems.

It is a compact size IP65 aluminium box. TCP/IP and SNMP communication protocols could be selected as option.

### TRANSMITTER SPECIFICATIONS

Input TX frequency.....	950 – 1700 MHz
Input impedance.....	50 Ω
Input L-Band VSWR .....	<1.5:1
Output frequency.....	950 – 1700 MHz
Output impedance.....	50 Ohms
Maximum input level without damage.....	+20 dBm
Insertion loss (L-Band) .....	-4.5 dB min.
Insertion loss (10MHz) .....	-4.5 dB min.
Gain flatness over the whole bandwidth.....	± 0.25 dB
Input connector TX .....	N(f) Type.
Output connector TX .....	N(f) Type. ( Buc1,Buc2).
Switching time .....	850 ms max (plus waveguide switch switching time)

▼ **RECEIVERS SPECIFICATIONS**

Input RX frequency.....	950 – 1700 MHz (L-Band) from LNB
Input impedance .....	50 Ω
Input L-Band VSWR .....	<1.5:1
Output frequency.....	950 – 1700 MHz (L-Band) to Modem.
Output impedance.....	50 Ohms
Insertion loss .....	-1.5 dB min
Insertion loss (10MHz) .....	-1.5 dB min
Gain flatness over the whole bandwidth .....	± 0.25 dB
Selectable input.....	Yes
Input connector RX .....	N(f) Type
Output connector RX .....	N(f) Type
Switching time .....	350 ms max (plus waveguide switching time)

▼ **POWER SUPPLY**

AC input voltage .....	85-265 VAC 47-63Hz
Power consumption (nominal) .....	10 W
Peak current.....	2A (when switches change their position)
LNB supply .....	Through RX out connector. 0 - 24VDC, 500mA max.

▼ **ENVIRONMENTAL SPECIFICATIONS**

Storage temperature .....	-30 to +80°C
Operating temperature.....	-20 to +60°C (-40 to +60°C as option)
Relative humidity .....	up to 100%
Operating altitude.....	up to 3000 m.

▼ **MECHANICAL SPECIFICATIONS**

Dimensions .....	184 (W) x 162 (L) x 87 (H) mm
Weight.....	3.5 kg
Interfaces (mating connectors provided) .....	RF input → N(f) Type 50Ω
	RF output → N(f) Type 50Ω
	BUC M&C → MS3112E12-14S
	Switch M&C → MS3112E14-19P
	LNB M&C → MS3112E8-4S
	ODU M&C → MS3112E12-14S
	AC Power → MS3112E12-3P

▼ **INTERFACES WITH MODEM**

TX input.....	Multiplexed L-band + 10 MHz reference for BUCs input
RX output .....	Multiplexed L-band output from LNB + 10 MHz Vcc for LNBs input

▼ **OPTIONS**

RS1: .....	48 VDC power supply
RS2: .....	Operating temperature (-40 to +60°C)
RS2: .....	Ethernet interface (TCP/IP)
RS3: .....	SNMP Agent
RSC: .....	Custom Design