ا ُمل ّوح ِ ال ارل ﻕ ددرتلل **1+1**

1+1 70 MHz L-ba

Upconverter with 1+1 redundancy is applied in large earth stations where cost-effective frequency converter solutions are required.

Lightweight, durable and compact design ensures that the upconverter with 1+1 redundancy is effective solution for mobile reporting stations.

Thanks to aluminum chassis and solid modular interior design, the upconverter with 1+1 redundancy can be installed on military targets. Upconverter with 1+1 redundancy have a large MTBF value, which is more than 120,000 hours.

Upconverter with 1+1 redundancy can be used in VSAT stations, SCPC networks, reporting stations of SNG type, DVB-RCS systems and hubs, and any other systems where compact backup systems are needed.

KEY FEATURES:

- Upconverter with 1+1 redundancy includes the separate frequency converter block, detector module, power supply and reference oscillator.
- Upconverter with 1+1 redundancy consists of two frequency converters, which are integrated in the case of 1RU and can be automatically replaced in "hot" mode (1+1 scheme).
- It is possible to replace a separate converter block with spare redundant unit without shutting down the chassis.
- Upconverter with 1+1 redundancy provides automatic (in case of failure of one of the blocks) or manual switching between the blocks of frequency converters.

- Each converter is a completely autonomous device, which is executed as a replacement block.
- Replacement blocks are frequency converters with dual conversion of 70 MHz / 2400 MHz / L.
- It has local control from the front panel, which has LCD, LEDs and buttons.
- Upconverter with 1+1 redundancy provides complete remote control via Ethernet interface connector located on the rear panel.

- Provides the signals frequency conversion from the range of 50 - 90 MHz to the L-band (950-2150 MHz) when working in stations of satellite communication and television (L, S, C, X and Ku frequency bands).
- Provides **automatic "hot" backup** of converter blocks, reference generators and power supply units according to the scheme 1+1.
- Provides automatic switching to the backup unit when one of the blocks is broken.
- Provides the gain factor adjusting either using buttons on the front panel or remotely.

:	
MHz	52 88
	1.0 dB
kHz	1
ppm	0.01
dBc/Hz:	
100 Hz	-70
1 kHz	-90
10 kHz	-95
100 kHz	-95
1 MHz	-100
	50

dB	– 18
(20 dB)	– 20 dBm
:	
MHz	36
36MHz	5.0 950 – 2150 MHz dB
1dB (P1dB) dBm	0
IMD3 -13dBm dBm	– 40
dB	50
dB	– 50
dB	1.0
	50
VSWR	1.8:1
dBc	– 55
:	
	Ethernet 10/100 Base T
:	
MHz	10
dBc/Hz:	
10 Hz	-125
100 Hz	-140

1 kHz	-150
10 kHz	-155
:	
AC 50 Hz V	100 – 262
“ ” (1+1) W	45
:	
( ) mm	482 x 400 x 44
kg	7.0

(UMT LLC)

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