

UP CONVERTERS (OUTDOOR)

UC-OU



The Up Converter devices allow to convert signals from intermediate frequency IF to radio frequency RF. They are typically provided in waterproof external boxes so as to be placed as close as possible to their respective antennas.

The Up Converters are remotely powered by the same input connector of the IF signal. Their internal local oscillators (designed by PM Microwave) boast excellent stability and spectral purity.

TECHNICAL SPECIFICATIONS*

*specifications may be changed in accordance with the technical department

UP CONVERTER

IF input frequencies	typ. 36 / 70 / 1200 / 2400 MHz (others on request)
Input level	typ. -10 dBm
RF output frequencies	1.8 ÷ 14.5 GHz
Output level	27 / 30 / 33 / 37 dBm (0.5, 1, 2, 5 W)
Input signal bandwidth	max. 30 MHz
Input characteristic impedance	50 Ω
Return loss on input port	> 18 dB
RF structure	PLL synthesized, single or double conversion
Frequency stability L.O.	± 5 ppm standard, ± 2 ppm HS opt.
L.O. steps	1 MHz standard (others on request)
Spurious emissions	< -60 dBc

GENERAL

Power supply	13 ÷ 15 Vdc via IF input
Power consumption	30 W max.
Operating temperature	-10 ÷ +45 °C
Storage temperature	-20 ÷ +80 °C
Storage relative humidity	10% ÷ 80%
Dimensions	Custom box (220 × 96 × 228 mm)
Protection degree	IP67