

MKU UP 2424 B, Oscar Phase 4 Up-Converter

2400 ... 2402 MHz

Stand-alone up converter for the OSCAR PHASE 4 geostationary satellite

144 MHz IF

Fully remote controllable

Firmware update is available in the "Download" tab below! New features:

- includes additional module for optimized frequency generation
- synchronization by external 10 MHz-reference signal (SMA-connector)
- enhanced frequency stability (+/- 0.5 ppm between 0°C and 60°C)
- various IF-frequencies in 2m- and 70cm ham radio bands



Features

- Integrated TCXO
- LDMOS power amplifier with low pass filter for good harmonic suppression
- Power indicator on the front panel
- Protection against bad VSWR and over temperature

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- synchronization by external 10 MHz-reference signal (SMA-connector)
- enhanced frequency stability (+/- 0.5 ppm between 0°C and 60°C)
- various IF-frequencies in 2m- and 70cm ham radio bands

Applications

- Up-Converter for the geostationary satellite OSCAR PHASE 4
- For DATV usable

Technical specifications:

Frequency range (IF)	144 ... 146 MHz / 432 ... 434 MHz
Input power (IF)	0.5 ... 5 W (adjustable)
Frequency range (RF)	2400 ... 2402 MHz
LO frequency	1968 MHz / 2256 MHz
LO accuracy @ 18 °C	typ. +/- 1.5 ppm
LO frequency stability	typ. +/- 0.5 ppm (0°C ... 60°C)
Output power (Psat)	min. 20 W
Harmonic rejection	min. 60 dB
Supply voltage	+13.8 V DC (+12 ... 14 V DC)
Connector supply voltage	SUB-D 9-pole
Current consumption	typ. 7 A (TX)
Reference frequency input	10 MHz / 2 ... 10 mW
Input connector / impedance	BNC-female / 50 ohms
Ref. input con. / impedance	SMA-female, 50 ohms
Output connector / impedance	N-female, 50 ohms
Dimensions (mm)	165 x 206 x 67
PTT control	Contact closure to ground or +12 V on the IF cable