

UC4700 Block Upconverter Module

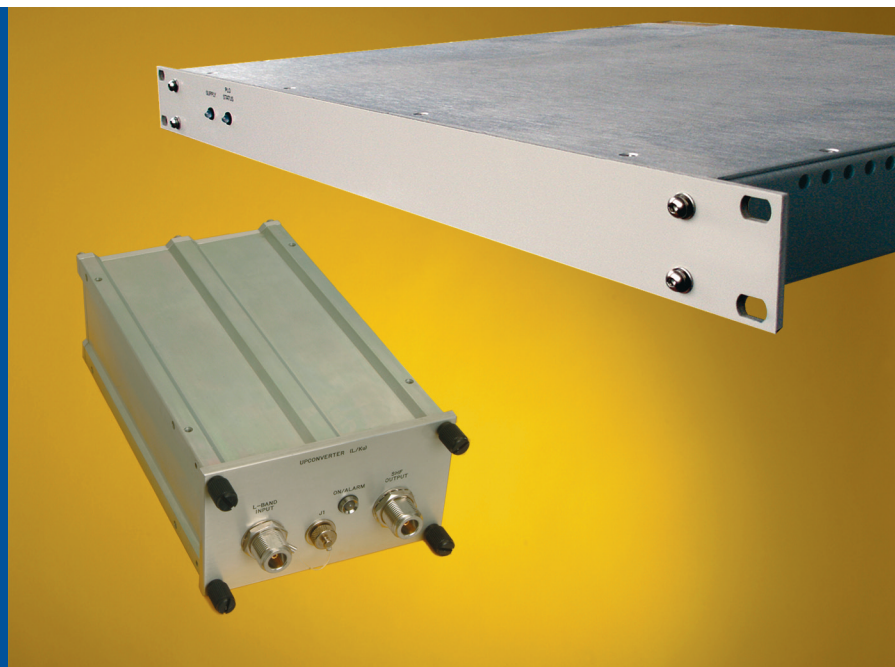
19 inch rack mount version

Weatherproof outdoor version

- The UC4700 is a high performance block upconverter with input at L band, and output versions for C band, X band, Ku band and DBS bands.
- Low spurious
- Variable gain
- High stability
- Low power

Two versions of housing are available:

- 19 inch rack mount with integral 110/230 VAC PSU
- Weatherproof housing with DC phantom powering via L band Coax cable



Specification

FREQUENCY RANGE

Input Frequency Range
950 to 1750 MHz

Output Frequency Range
C band

5.85 to 6.65 GHz

X band

7.9 to 8.4 GHz

Ku band

13.75 to 14.5 GHz

or any 800 MHz to 14.5 GHz

DBS Band

17.3 to 18.1 GHz

17.6 to 18.4 GHz

Frequency Accuracy

± 100 Hz from nominal at 25°C
(± 80 Hz typically)

Frequency Stability

5 x 10⁻⁸

GAIN

Input Power Level

- 10 dBm nominal, 0 dBm max.

Output Power Level

+15 dBm min. at 1 dB compression point

Gain

+25 dB nominal adjustable at ±10dB

Gain Variation

± 0.25 dB any 36 MHz

± 1.5 dB over 800 MHz

± 10.25 dB over 24 hours @ constant temp

Group delay Variation

± 0.25 ns in any 4 MHz

SSB PHASE NOISE

Offset freq. dBc IESS 308, etc

Better than 6dB below IESS309

VSWR

Input Return Loss

10 dB @ 50 Ω

Output Return Loss

18 dB @ 50 Ω

Spurious

Modulated

-60 dBc

Unmodulated

65 dBm

Harmonics

- 20 dBc

Temperature

- 20 to + 60°C

MECHANICAL

Weatherproof Version

Sealed

IP65

Length

210 mm

Width

127 mm

Depth

66 mm

Weight

1.5 Kg

MECHANICAL

Rack mount version

Size

1 RU chassis

550 mm deep

Weight

2 Kg

Power

100 to 260 VAC