

AUC68 Wideband Series

Ku-Band to L-Band Down Converter

Features

- Wideband (10.70 to 12.75GHz)
- · Compact unit, complete in a single 1 RU package
- Full monitoring and control through LCD and keypad front panel or serial remote
- User selectable spectrum inversion
- Flexible design for various user's configurations
- RS232, RS485 and Ethernet interface for remote M&C
- Built-in 1+1 configuration

Reliability

Field proven with system deployed worldwide, Agilis IDU can withstand temperature from 0°C to +50°C up to 95% non-condensing humidity.

Quality Assurance

All Agilis IDUs are designed and manufactured according to ISO 9001 Standard.



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Technical Specifications

Input Parameters

Input Frequency 10.70 to 12.75GHz

Impedance 50Ω Return Loss 20dB **Input Power** 15dBm

Output Parameters

Output Frequency 950-1700MHz (with band selection)

	Frequency	LO
Band 1	10.7 - 11.75GHz	(9.75GHz)
Band 2	11.75 - 12.25GHz	(10.8GHz)
Band 3	12.25 - 12.75GHz	(11.3GHz)

Impedance 50Ω **Return Loss** 18dB Output Power @P1dB +5dBm min

Transfer Parameters

Conversion Gain 33dB min

Gain Adjustment 30dB with 0.5dB step

Gain Flatness ±0.75dB over 36 MHz Bandwidth +1 5dB over Full Bandwidth **Gain Stability** ±0.25dB over 24 hours at constant

temperature

Noise Figure 15dB

In Band Spurious

Carrier dependent -60dBc at max gain Carrier Independent -70dBm max

Third order 45dBc @ 2 carriers 2MHz apart, 8dB back off

BNC Female

intermodulation products from Prated for each carrier

Phase Noise

@100Hz -73dBc/Hz @1KHz -83dBc/Hz @10KHz -90dBc/Hz @100KHz -95dBc/Hz @1MHz -95dBc/Hz

Rear Panel Connections

IF/L Output BNC Female (for Ku to IF)

N-Type Female (for Ku to L) **RF Band Input** SMA Female

10MHz Ext REF Connector

(Optional)

Remote Connector DB 9 Female Power IN AC/DC

Monitor and Control

Interface Monitoring parameters **Control Parameters**

Redundancy

RS232/ RS485/ Ethernet LO & Temperature Alarms Gain Adjustment @ 0.5dB Step Built-in two down converters with redundancy control card in 1U

Power Supply Requirement

AC Input Voltage 90 to 264VAC 50/60Hz Power Consumption 30W

Environmental

Operating temperature 0°C to 50°C

Humidity up to 95% (Non-condensing)

Mechanical

Dimension 480L x 460W x 44H mm

Weight 3.5kg

*All specifications are subject to change without notice. Rev. 010513