



# AUC68 Series

L/IF to Ku-Band Upconverter

## Features

- 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
- Redundant ready
- Available for wide satellite bands
- Flexible design for various user's configurations
- RS232, RS485 and SNMP interface for remote M&C

## 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

<b>Input Frequency</b>	950-1700MHz (for L to Ku) 70 ± 18MHz (140MHz optional) (for IF to Ku)
<b>Impedance</b>	50Ω
<b>VSWR</b>	1.5:1

### Output Parameters

<b>Output Frequency</b>	13.75-14.5GHz
<b>Impedance</b>	50Ω
<b>VSWR</b>	1.5:1
<b>Output Power @P1dB</b>	+5dBm min

### Transfer Parameters

<b>Frequency spectrum</b>	User selectable (for IF to Ku)
<b>Conversion Gain</b>	25dB min
<b>Gain Adjustment</b>	20dB with 0.5dB step
<b>Gain Flatness</b>	±0.75dB over 36MHz Bandwidth ±1.5dB over Full Bandwidth
<b>Gain Stability</b>	±0.25dB over 24hours at constant temperature
<b>In Band Spurious</b>	
<b>Carrier dependent</b>	-55dBc at max gain
<b>Carrier Independent</b>	-70dBm max
<b>Out Band Spurious exclude LO</b>	-50dBm max
<b>Third order intermodulation products</b>	35dBc @ 2 carriers 2MHz apart, 8dB back off from Prated for each carrier
<b>Phase Noise</b>	
<b>@1KHz</b>	-73dBc/Hz
<b>@10KHz</b>	-83dBc/Hz
<b>@100KHz</b>	-93dBc/Hz (for IF to Ku)
<b>@1KHz</b>	-75dBc/Hz
<b>@10KHz</b>	-85dBc/Hz
<b>@100KHz</b>	-95dBc/Hz (for L to Ku)

### Rear Panel Connections

<b>IF/L Input</b>	BNC Female (for IF to Ku) N-Type Female (for L to Ku)
<b>RF Band Output</b>	SMA Female
<b>10MHz Ext REF Connector (Optional)</b>	BNC Female
<b>Remote Connector</b>	DB 9 Female
<b>Power IN</b>	AC/DC

### Monitor and Control

<b>Interface</b>	RS232/RS485/SNMP (Optional)
<b>Monitoring parameters</b>	LO & Temperature Alarms
<b>Control Parameters</b>	Gain Adjustment @ 0.5dB Step

### Power Supply Requirement

<b>AC Input Voltage</b>	100 to 240VAC 50/60Hz
<b>Power Consumption</b>	35W

### Environmental

<b>Operating temperature</b>	0°C to 50°C
<b>Humidity</b>	up to 95% (Non-condensing)

### Mechanical

<b>Dimension</b>	480L x 330W x 44H mm
<b>Weight</b>	3.5kg (for L to Ku) 4.0kg (for IF to Ku)

\*All specifications are subject to change without notice.  
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