



AUC38 Series

IF/L to C-Band Up Converter

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
- Built-in Redundancy control

Quality Assurance

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

Reliability

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

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Technical Specifications

Output Parameters

| | |
|--------------------|------------------|
| Output Frequency | 5.85 to 6.750GHz |
| Impedance | 50Ω |
| VSWR | 1.3:1 |
| Output Power @P1dB | +0dBm min |

Input Parameters

| | |
|-----------------|--|
| Input Frequency | 950-1825MHz (for L to C) 70 ± 18MHz (for IF to C) |
| Impedance | 50Ω |
| VSWR | 1.5:1 |
| Input Power | -5 to -25dBm |

Transfer Parameters

| | |
|--------------------------------------|--|
| Frequency spectrum | User selectable (for IF to C) |
| Conversion Gain | 28dB min |
| Gain Adjustment | 25dB with 0.5dB step |
| Gain Flatness | ±0.75dB over 36MHz Bandwidth ±2dB over Full Bandwidth |
| Gain Stability | ±0.25dB over 24hours at constant temperature |
| In Band Spurious | |
| Carrier dependent | -55dBc at max gain |
| Carrier Independent | -65dBm max |
| Out Band Spurious exclude LO | -60dBm max |
| Third order intermodulation products | 40dBc @ two carriers 2MHz apart, 8dB back off from Prated for each carrier |
| Phase Noise | |
| @1KHz | -73dBc/Hz |
| @10KHz | -83dBc/Hz |
| @100KHz | -93dBc/Hz (for IF to C) |
| @1KHz | -75dBc/Hz |
| @10KHz | -85dBc/Hz |
| @100KHz | -95dBc/Hz (for L to C) |

Rear Panel Connections

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

Monitor and Control

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

Power Supply Requirement

| | |
|-------------------|-----------------------|
| AC Input Voltage | 100 to 240VAC 50/60Hz |
| Power Consumption | 35W |

Environmental

| | |
|-----------------------|----------------------------|
| Operating temperature | 0°C to 50°C |
| Humidity | up to 95% (Non-condensing) |

Mechanical

| | |
|-----------|---|
| Dimension | 480L x 330W x 44H mm |
| Weight | 3.5kg (for L to C) 4.0kg (for IF to C) |

*All specifications are subject to change without notice.
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The Agilis logo features the word "Agilis" in a white, sans-serif font. To the left of the text is a stylized white graphic element that resembles a curved line or a partial circle, suggesting motion or a signal path.