



ACU Series

Quad Band LNB Control Unit

The Agilis ODU Control Unit (ACU) is a high performance, cost-effective VSAT equipment designed for satellite communication with high speed transmission capability suitable for both telephony and high speed data communication. The ACU can be operated with different modulation formats like BPSK, QPSK and FM. It is suitable for Single Carrier Per Channel (SCPC), Multi-Carrier Per Channel (MCPC), Demand Assigned Multiple Access (DAMA) and Time Division Multiple Access (TDMA) applications.

Features

- Highly reliable
- Compact size and lightweight
- King post/pole mount outdoor unit, IP65 rated
- Selection of DC voltage & 22kHz tone & 10MHz reference to the LNB
- Monitor and control on the LNB through proprietary software
- Comes with L-Band multiplexer for BUC (Optional)
- Internal attenuator and amplifiers for gain and insertion loss adjustment
- High accuracy internal OCXO reference
- Comes with Receive L-Band monitor port

Reliability

Field proven with system deployed worldwide, Agilis LNB control unit can withstand temperature from -40°C to +60°C up to 100% humidity.

Quality Assurance

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

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Technical Specifications

RX L-Band Port Parameters

Frequency	950 ~ 2150MHz
Impedance	50Ω (N-type Female)
VSWR	1.5:1 max

TX L-Band Port Parameters (Optional)

Frequency	950 ~ 2150MHz
Impedance	50Ω (N-type Female)
VSWR	1.5:1 max

Receive Transfer Parameters

Conversion Gain RX L-Band IN to RX L-Band OUT	5dB typ
Conversion Gain RX L-Band IN to RX L-Band MONITOR	5dB typ

Full band Gain Flatness RX L-Band IN to RX L-Band OUT	3.0dB max
Full band Gain Flatness RX L-Band IN to RX L-Band MONITOR	3.0dB max

10MHz power level	0dBm typ
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Adjustable Attenuation Setting	15dB
Attenuation step size	0.5dB

LNB Control Signal (22kHz Tone)	400-600mV
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DC Voltage Supply to LNB At +13V set	13-14V
At +18V set	18-19V

DC Current Supply to LNB At +13V set	600mA max
At +18V set	600mA max

Tranmit Transfer Parameters (Optional)

Insertion loss	3dB max
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Full band Gain Flatness	3.0dB max
36MHz Gain Flatness	1.0dB max

10MHz power level	0dBm typ
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Monitor and Control

Interface	RS232 / RS485 and Ethernet SNMP
Monitoring Parameters	LNB Status, LNB Voltage, LNB Tone TX/RX Reference
Control Parameters	RX Attenuation, TX/RX Reference, LNB Voltage, LNB Tone

Power Supply Requirement

AC Input Voltage	110~220VAC +/- 10%, 47 ~63Hz
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Power Consumption	30W max
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Environmental

Operating Temperature	-40°C to +60°C
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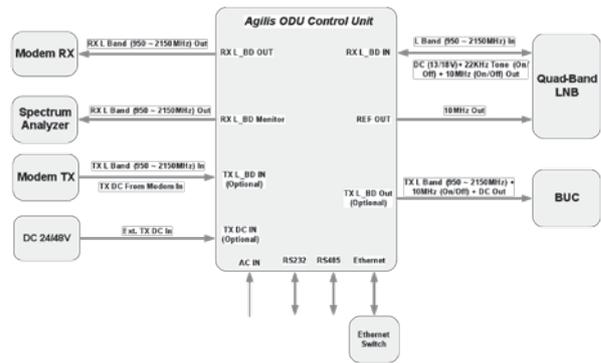
Relative Humidity	Up to 95% (Non-condensing)
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Mechanical

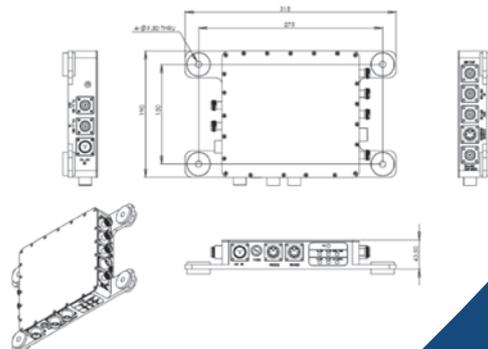
Dimension	205L x 190W x 44H mm
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Weight	<2kg
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System Block Diagram



Mechanical Dimensions



www.agilissatcom.com

For more information, please send enquiry to:

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*All specifications are subject to change without notice.
Rev. 300112

