



AAV610 Series

1:1 Redundancy Control Unit

Features

- Provides power supply and reference signal to redundant LNB units
- Power supply in 1:1 redundant mode is available
- Supports C, X and Ku-Band LNB, LNA and BUC units
- Programmable attenuation on each path to equalize the path gains for reliable and out-standing operation performance
- Built-in 1:1 extremely stable 10MHz OCXO (Optional)
- 10MHz reference available in 1:1 redundant mode
- Redundant 90-260 VAC power supply input
- Fault indication by LED display
- King post / pole mount outdoor unit with IP65 rated
- RS232/RS485 serial and SNMP for remote monitoring & control
- Form C contact closure outputs
- Field programmable firmware
- Indoor rack mount version available

Reliability

Field proven with system deployed worldwide, Agilis RCU can withstand temperature from -40°C to +60°C up to 100% humidity. Agilis IDU can withstand temperature from 0°C to +50°C up to 95% non-condensing humidity.

Quality Assurance

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

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Technical Specifications

Input Parameters

Frequency	950 ~ 1700MHz (for LNB and BUC) 3.4 ~ 4.2GHz (for C-Band LNA) 7.25 ~ 7.75GHz (for X-Band LNA) 10.70 ~12.75GHz (for Ku-Band LNA)
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Impedance	50Ω (N-type Female)
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VSWR	1.5:1 max
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Output Parameters

Frequency	950 ~ 1700MHz (for LNB and BUC) 3.4 ~ 4.2GHz (for C-Band LNA) 7.25 ~ 7.75GHz (for X-Band LNA) 12.70 ~12.75GHz (for Ku-Band LNA)
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Impedance	50Ω (N-type Female)
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VSWR	1.5:1 max
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Receive Transfer Parameters for LNA/LNB

Insertion loss	3dB max
Full band Gain Flatness	1.5dB max
36MHz Gain Flatness	0.5dB max
Isolation	
LNA/LNB-A to LNA/LNB-B	30dB min
10MHz Output Power Level	0dBm typ
DC Voltage Supply to LNA/LNB	14-16V 24V (optional)
DC Current Supply to LNA/LNB	500mA max

Transmit Transfer Parameters for BUC

Insertion loss	6dB max
Full band Gain Flatness	1.5dB max
36MHz Gain Flatness	0.5dB max
Isolation	
BUC A to BUC B	30dB min
10MHz Output power level	0dBm typ
DC Voltage Supply to BUC	24V/48VDC
DC Current Supply to BUC	8A@24V max 4A@48V max

Monitor and Control

Interface	RS232/RS485 and Ethernet SNMP (Optional)
Monitoring Parameters	LNB/LNA/BUC Alarms; Power Supply Alarms
Control Parameters	Units Online / Offline Gain adjustment
Switch over time	100ms

Power Supply Requirement

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

Operating Temperature	-40°C to +60°C (outdoor) 0°C to +50°C (indoor)
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Relative Humidity	Up to 100% (Non-condensing) Up to 95% (Non-condensing)
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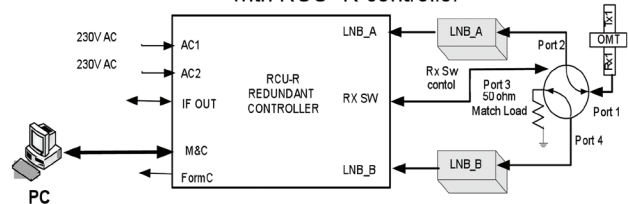
Mechanical

Dimension	280L x 215W x 95H mm (outdoor) 480L x 330W x 44H mm (indoor)
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Weight	4kg (outdoor) 3.5kg (indoor)
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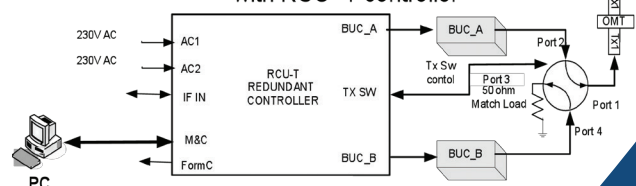
System Block Diagram for RCU-Receive

1:1 Redundant system for LNB units
with RCU -R controller



System Block Diagram for RCU-Transmit

1:1 Redundant system for BUC units
with RCU -T controller



*All specifications are subject to change without notice.
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