AAV610 Series

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 and KU-Band LNB 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 180-230 VAC power supply input (Optional 90-130 VAC)
- 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

Reliability

Field proven with system deployed worldwide, Agilis RCU can withstand temperature from -40ºC to +60ºC up to 100% humidity.

Quality Assurance

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

Agilis

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Technical Specifications

Input Parameters

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

Output Parameters

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

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
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
Power Consumption	30W typ

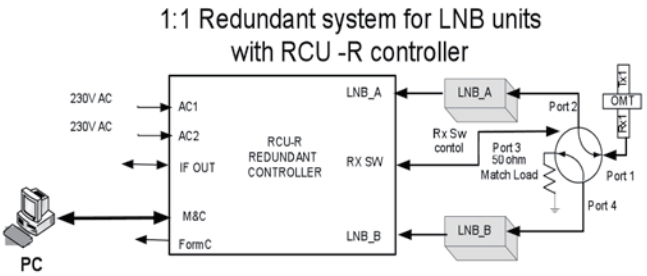
Environmental

Operating Temperature	-40ºC to +60ºC
Relative Humidity	Up to 100% (Non-condensing)

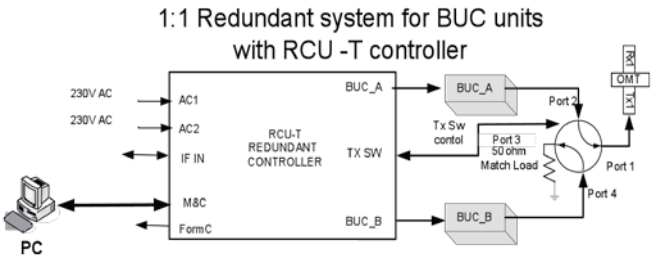
Mechanical

Dimension	280L x 215W x 95H mm
Weight	4kg max

System Block Diagram for RCU-Receive



System Block Diagram for RCU-Transmit



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*All specifications are subject to change without notice.
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