



# AAV620 Series

## 2:1 Receive Redundant System

### Features

- RCU provides power supply and reference signal to redundant LNB units
- Supports C, LNA units, Ku-Band LNB and LNA units
- Built-in 1:1 extremely stable 10MHz OCXO
- 10MHz reference available in 1:1 redundant mode
- Redundant 90-260 VAC power supply input
- Manual or automatic operations
- Monitors LNB/LNA bias currents to detect faults
- Fault indication by LED display
- Plate assembly design
- RS232/RS485 serial and Ethernet 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 ODU can withstand temperature from  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  up to 100% humidity. Agilis IDU can withstand temperature from  $0^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  up to 95% non-condensing humidity.

### Quality Assurance

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

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## Technical Specifications

### Input Parameters

<b>Frequency</b>	3.4 ~ 4.2GHz (for Std-C LNB/LNA)
	4.5 ~ 4.8GHz (for Insat C LNB/LNA)
	10.7~ 10.95GHz (Ku LNB)
	10.95 ~ 11.7GHz (Ku LNB)
	11.7~ 12.2GHz (Ku LNB)
	12.2 ~ 12.75GHz (Ku LNB)
<b>VSWR</b>	10.7~ 12.75GHz (Quad band LNB/LNA)
	1.5:1 max

### Output Parameters

<b>Frequency</b>	950 ~ 1700MHz (for LNB)
	3.4 ~ 4.2GHz (Std-C LNA)
	4.5 ~ 4.8GHz (Insat C LNA)
	10.7 ~12.75GHz (for Ku-Band LNA)
<b>Impedance</b>	50Ω N-type Female (C-Band LNB/LNA & Ku-band LNB)
	50Ω SMA-type Female (Ku-band LNA)
<b>VSWR</b>	1.5:1 max

### Receive Transfer Parameters for LNA/LNB

<b>Insertion loss</b>	3dB max
<b>Full band Gain Flatness</b>	1.5dB max
<b>36MHz Gain Flatness</b>	0.5dB max
<b>Isolation between path A, path B and path C</b>	30dB min
<b>10MHz Output Power Level</b>	0dBm typ
<b>DC Voltage Supply to LNA/LNB</b>	18V
	24V (optional)
	13V / 18V / 22KHz (for Quad-Band LNB)
<b>DC Current Supply to LNA/LNB</b>	500mA max

### Monitor and Control

<b>Interface</b>	RS232/RS485 and Ethernet SNMP
<b>Monitoring Parameters</b>	LNB/LNA; Power Supply Alarms
<b>Control Parameters</b>	Units Online / Offline

<b>Switch over time</b>	100ms
<b>Form "C" Relay Contacts</b>	

### Power Supply Requirement

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

### Environmental

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

\*All specifications are subject to change without notice.  
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[www.agilissatcom.com](http://www.agilissatcom.com)

For more information, please send enquiry to:

**Singapore (Headquarters)**

[mktg\\_satcoms@stee.stengg.com](mailto:mktg_satcoms@stee.stengg.com)

**USA**

[usa\\_satcoms@stee.stengg.com](mailto:usa_satcoms@stee.stengg.com)

**Europe**

[europe\\_satcoms@stee.stengg.com](mailto:europe_satcoms@stee.stengg.com)

