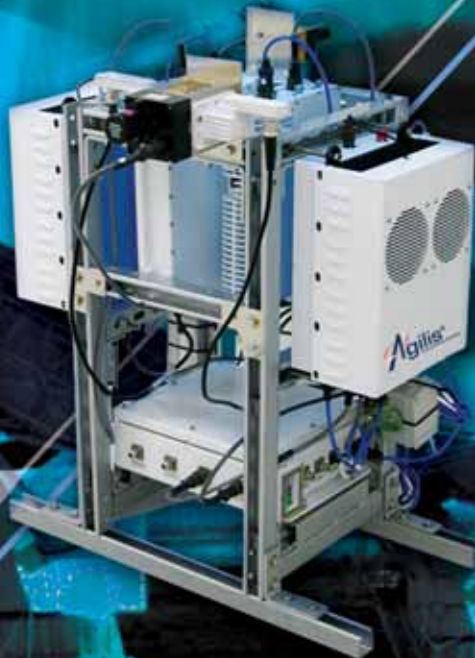


AAV 610 Series Outdoor Redundancy Switching Equipment



Agilis AAV 610 Series Outdoor Redundancy Switching Equipment provides 1:1 redundancy switching capability between two streams of Agilis outdoor Ku-Band or C-Band Transceivers, Block-Upconverters (BUCs) or Low Noise Blocks (LNBs).

Agilis Redundancy Switching Equipment performs switching operation when a fault is detected at either chains of the transceivers. The switch over can be automatic or manually controlled by the operator. In the automatic mode, the equipment switches the chains to the operational units. Fault diagnosis can thus be performed on the failed units while maintaining the link. The switch over results in less than half a second of traffic interruption, which is negligible.

Features

- Independent path switching between two transceivers, BUCs or LNBs
- Monitor and control function can operate either locally or remotely
- Remote monitor and control via RS485 interface
- RCU provides DC supply and 10MHz reference for LNBs or BUCs
- Redundant AC supply
- Redundant highly stable oscillator reference for LNBs & BUCs

Applications

- Hub and VSAT terminals
- Video conferencing
- Network hubs or remote sites
- Broadcast
- Rural telephony
- Emergency link restoration

Enhanced Monitoring and Control

Agilis RCU offers M&C via RS232/485. It features full remote M&C via PC.

These include:

- RF inhibit selection
- Independent path selection
- Automatic fault identification & switching

Reliability

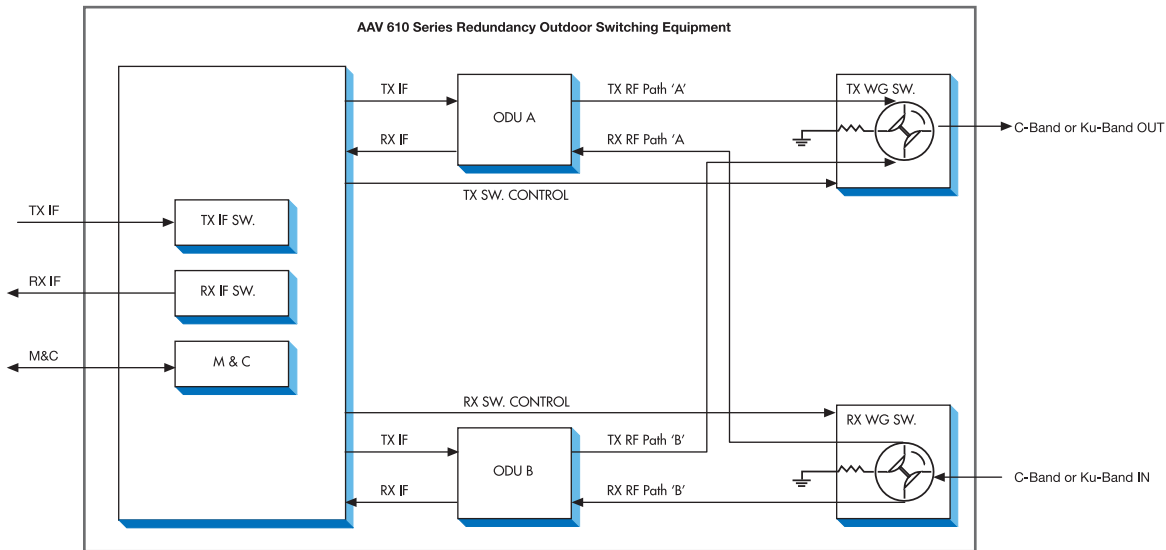
Field proven under harsh environmental conditions. Agilis RCUs can withstand temperature ranging from -40°C to $+60^{\circ}\text{C}$ with up to 100% humidity.

Quality Assurance

All Agilis ODUs go through intensive active electrical stress screening with performance being monitored during screening. In addition, all units undergo 100% waterproof test equivalent to IP65 to ensure normal operation during tropical, cold and harsh environment.

TECHNICAL SPECIFICATIONS

AAV 610 Series Outdoor Redundancy Switching Equipment



Redundancy Control Unit (RCU)

Frequency Range	
RCU - Transceiver	70±18 MHz
RCU - BUC	950 to 1825 MHz
RCU - LNB	950 to 1825 MHz
Max. Input Power (without damage)	+20 dBm
VSWR	1.05:1 Typ.
Impedance	50Ω
Interface	N-type Female

IF Switches

Insertion Loss	3,0 dB max
Isolation (in-out)	30 dB min
Full-Band Flatness	1,5 dB max

RF Waveguide Transfer Switches

Frequency Band	Ku-Band or C-Band
Insertion Loss	0,05 dB max
Isolation	60 dB min
Switching Time	60 ms max
Actuating Voltage	220Vac nom
Switch Position Indicators	Form "C" relays
VSWR	1,05:1 max
Impedance	50Ω
Interface	WR75 for Ku-Band WR137 for C-Band Transmit WR229 for C-Band Receive

Environmental

Operating Temperature	-40°C to +60°C
Relative Humidity	up to 100%

Control Modes

Remote	DTE monitor and control
Local (Transceiver RCU only)	RCU window access panel monitor and control

Operation Modes

Automatic	Automatic switching upon fault detection
Manual	Manual switching from DTE RCU window access panel (Transceiver RCU only)

Power Supply

RCU for Transceiver	
DC Input Range (via transceiver)	+12Vdc to +15Vdc
Power Consumption	7,0 W max

RCU for BUC or LNB

AC Input Range	110 or 220 VAC
Power Consumption	5,0 W max

Waveguide Transfer Switches

AC Input (via RCU)	220Vac nom, 50/60 Hz
Switching Current	1,4 A type (each for both switches) Zero current consumption if switch is idle (not switching)

Mechanical

Dimensions	
RCU - Transceiver	393L x 293W x 109H mm
RCU - BUC	280L x 215W x 95H mm
RCU - LNB	280L x 215W x 95H mm
Weight	4,0 kg
Colour	White Powder Coat

Note: All specifications are subject to changes without notice.