

Switching Control Unit

Model No: JC-SMTP-SCU11



Land



Air



Marine

The Switching Control Unit is primarily used for selecting one out of 4 external antennas based on RF signal strength, time & distance. Signal strength of all 4 antennas (through AGC voltages) are received from Receiver. The SCU is having robust switching algorithm to avoid intermittent signal loss. SCU is provisioned with manual over ride Antenna switching at front panel through Auto & Manual Switch. In Auto mode Antenna selection will be done automatically based on switching algorithm. In manual mode user has to select required Antenna by seeing AGC voltage bar and Antenna switches provided at the Front panel.

Applications

- Tracking application

Features

- Switching based on signal strength, time lapse since start and also distance to the object being tracked



Technical Specifications

Functional	
Analog Inputs	LHCP AGC Voltage from Receiver (0 to 10V DC) RHCP AGC Voltage from Receiver (0 to 10V DC)
Digital O/P for Switch Controls	LHCP RF Switch Controls: 4 TTL with Driver RHCP RF Switch Controls: 4TTL with Driver
Timing Start Input	To Start push button Switch to start time
Antenna Switching	Auto/Manual Auto: Based on AGC, Time & Distance Manual: 4way rotary Switch for LHCP & RHCP
Interfaces	Ethernet I/F-GUI RS-422 I/F1-PCM Decom for target Locations RS-422 I/F2- INS/GPS for Present Location GPS ANT I/P
Indications	10 LED BAR Graph for LHCP & RHCP AGC Voltage Indications 4 Antenna Switch Selection LED Indication for LHCP & RHCP
Controls	Two 4 way Switches for LHCP & RHCP
Signal I/O Connections	Series-III Circular Connectors Ethernet RJ45 for RF CTRL
Electrical	
Operating Voltage Range	230V±15V AC, 1 Phase, 50 Hz or 24±4V DC
Rated Current	0.75 Amp Max in AC or 5 A in DC
Mechanical	
Type	2U -19 inch Rack Mountable
Dimensions	W: 482 mm X H 88 mm X D 350 mm
Weight in Kg	<5kg
Environmental	
Temperature	
• Operating	-20° C to +55° C
• Storage	-25° C to +65° C
Humidity	90% RH Non-Condensing
Environmental Compliance	JSS-55555 / MIL 810D
EMI / EMC Compliance	MIL-STD-461E

