



## Antenna Control Unit

DIKSUCHI is a Precise ,Rugged Antenna Control Unit Built around a Power full Combination of ARM Cortex M4 Controller and an FPGA . DIKSUCHI is used to Control the azimuth, elevation and polarization of an Antenna.

DIKSUCHI is having an integrated Satellite Beacon Receiver, PSU and GNSS Receiver (Optional). We will also provide External 3D Compass, IMU , Servo Motor Drives and Inclinometer as an Accessories along with the Antenna Control Unit.

### Key Features :

- ◆ 32bit ARM Cortex M4 processor
- ◆ Spartan FPGA with 43K Programming Logic
- ◆ Built in Satellite Beacon Receiver
- ◆ Built in GPS/GLONASS Receiver
- ◆ Rugged Construction to meet MIL Standards
- ◆ Ethernet / RS232/R485 Connectivity
- ◆ CAN & BISS Interface
- ◆ Supports 16 Digital inputs & Digital outputs
- ◆ Support 16 Analog inputs & Analog outputs
- ◆ Complied to MIL 461-F & MIL 810-G



### System Specifications :

Micro Controller	ARM Cortex M4
FPGA	Spartan with 43K Logic Cells
Satellite Beacon Receiver	1 Number with BIAS TEE Support
GPS/GLONASS Receiver (Optional)	72 Channel GPS/GLONASS Receiver
CAN Interface	1 Port
BISS Interface	3 Port
Ethernet 10/100Mbps	1 Number
RS232/RS485	8 Numbers
Analog Input ( +/- 10)V	16 Numbers
Analog output( +/- 10)V	16 Numbers
Digital Input (0-10) V	16 Numbers
Digital output (0-10) V	16 Numbers



## Electrical Specifications:

Inputs Voltage	230V A/C
Power	Supports up to 620W
Operating Temperature	-30 °C to + 60 °C
Storage Temperature	-40 °C to + 80 °C

## Mechanical Specifications:

Dimensions (L x W x H)	440 x 300 x 44mm
Weight	< 6KG
Material	Aluminium
Color	NATO/ Military Green
Mounting	Flange Mount

## Environmental Specifications:

Conductive Emission	CE101, CE102, CE106
Conducted Susceptibility	CS101, CS114
Radiated Emissions	RE101, RE102
Radiated Susceptibility	RS101, RS105
Vibration	5 ~ 500 Hz, 1.48 & 1.90 & 2.24 Grms, Method 514.6
Shock	Method 516.6 / Procedure I

## Ordering Guide:

Part Number	DIKSUCHI-1-G-C-IN-IM-E1-E2-P-LS1 <del>xx</del> -LS2 <del>xx</del> -MC
Hand Held Unit [HHU]	RUGGED HHU QTY 1 No. will be part of Supply
<b>Optional Accessories</b>	
G - GPS Receiver & Antena	G:V3N-GNR-01
C - 3D Compass	C:V3N-C100
IN - Inclinator	IN:V3N-IN100
IM - IMU	IM:V3N-IM100
E1 - Absolute Encoder	19+12bit Encoder
E2 - Absolute Encoder(17bit)	17 bit Encoder
P - Potentiometer	10 Turn Potentiometer
LS1 - Limit Switch	83871101 ( <del>xx</del> =Number of Limit Switch )
LS2 - Limit Switch	MV254R1 ( <del>xx</del> =Number of Limit Switch )
MC - Mating Cable Assemblies	a) Ethernet - 10 Meters b) Power - 10 Meters c) Handheld Unit - 10 Meters d) Motor - 5 Meters e) Inclinator - 5 Meters f) 3D Compass - 5 Meters g) Encoder - 5 Meters h) Limit Switch - 5 Meters i) GPS (LMR240) - 10 Meters

