NUSANTARA E KU-BAND

Terminal Nusantara E ESA (Electronically Steered Antenna) Full Dimension adalah solusi VSAT multifungsi berperforma tinggi yang dirancang untuk memenuhi kebutuhan pelacakan satelit berkecepatan tinggi, integrasi tanpa batas, dan keandalan luar biasa dalam desain yang ringkas. Terminal ini menawarkan solusi komunikasi satelit yang cerdas dan hemat biaya.

FITUR UTAMA:

1. Pelacakan Berkecepatan Tinggi
2. Integrasi Tinggi
3. Keandalan Tinggi
4. Pemasangan Sederhana
5. Pengoperasian Mudah
6. Penggunaan Fleksibel
7. Kompatibel untuk orbit GEO, MEO, & LEO
8. Sertifikasi IP68

Overall Specifications	
Model No.	ESA43095MUF
Antenna Type	Electronic Steering Phased Array

RF Performance	
Frequency Range	TX 13.75~14.50 GHz, RX 10.70~12.75 GHz
EIRP	≥ 43 dBW @ Normal (Normal direction =Elevation 90°) ≥ 42 dBW@ 30° (30°off axial angle= Elevation 60°) ≥ 38.5 dBW@ 60° (60°off axial angle= Elevation 30°)
G/T	≥ 9.5 dB/K @ Normal (Normal direction =Elevation 90°) ≥ 8.5 dB/K@ 30° (30°off axial angle= Elevation 60°) ≥ 5 dB/K@ 60° (60°off axial angle= Elevation 30°)
Applicable Satellite Type	for GEO (HTS), MEO and LEO (Optional)
Polarization	Full polarization, automatic switching
Axis Ratio	≤3dB (Electronically Controlled)
X-Pol Isolation	>30dB@ Normal
Coverage	0-360° @ azimuth, off axis angle 0° to 60°

Integrated Tracking System	
Tracking Accuracy	≤0.2°
Integrated Tracking Type	DVB-S, DVB-S2, DVB-S2X
Beam Switching Time	≤3ms (any position)
Dynamic Capture Time of First Boot	≤ 120s
Static Capture Time of First Boot	≤ 30s
Recapture Time After Loss	<15sec (Duration of occlusion ≤5min) <25sec (Duration of occlusion >5min)
Scan Mode	Electronic Steering

Integrated Ku Up-Down Converter	
IF Frequency	RX: 950 ~ 2150 MHz, TX: 950 ~ 1700 MHz
IF Input Power (Modem Output)	-35 ~ 0dBm
LO.	Rx: 9.75/10.6 GHz, Tx: 12.8 GHz
Phase Noise	≤-60dBc/Hz (@100Hz), ≤-70dBc/Hz (@1kHz) ≤-80dBc/Hz (@10kHz), ≤-90dBc/Hz (@100kHz) ≤-120dBc/Hz (@1MHz)

Modem	
Internal /External Modem	Customizable

Mechanical	
Dimensions	≤610×510×67mm
Weight	≤11 kg

Environmental	
Operating Temperature	-25°C ~ +55°C (Standard), -40 °C ~ +70 °C (Customizable)
Storage Temperature	-40 °C ~ +85 °C
Humidity	5 ~ 95%
Wind Speed	150km/h
Ingress Protection	IP67

Power	
DC Power Supply	(With Adapter) AC 100 ~ 240V/50~60Hz (Without Adapter) 28VDC±5%
Power Consumption	Average≤260W; Peak≤360W

Interfaces	
IF TX/IF RX	SMA
Network Interface	Waterproof Quick Plug
Power Interface	Waterproof Quick Plug