



WAYFARER™ WCM055KU

0.55m Ku-Band Communications-on-the-Move Terminal

NORSAT's solution for uncompromising performance in on-the-move military and security applications is in the form of our compact, high-performing COTM terminal.

The antenna adopts carbon fiber material with light weight, high gain and low side lobe. NORSAT COTM terminal is ideally suited for vehicles with ultra low height radome restrictions:

- High mobility / armoured fighting vehicle platforms
- Law enforcement, Fire, Emergency command post vehicle platforms

FEATURES

- Norsat LinkControl Client for ease of use
- OpenAMIP support
- Interface with iDirect modem platform
- Lightweight, low profile vehicle mount
- Full range of RF Tx and Rx options available



ANTENNA UNIT

Antenna Type	Low profile parabolic
Dish Diameter	55 cm (22")
Outdoor Unit Size	1069 mm x 965 mm x 495 mm
Outdoor Unit Weight	52Kg (excluding BUC, LNB)
Radome Insertion Loss	≤ 0.3 dB
Frequency	Tx : 13.75 ~ 14.5 GHz Rx : 10.70 ~ 12.75 GHz
Antenna Gain	Rx Gain : 34.0 @ 12.50GHz dBi Tx Gain : 35.0 @ 14.25 GHz dBi
First Side Lobe	AZ: ≤ -14 dBi
G/T	11.0 dB/K @ 12.5 GHz
Cross Pol Isolation (On Axis, linear)	30 dB
Tx/Rx Isolation	85 dB
Antenna Feed Interface	Tx: WR75, Rx: WR75
VSWR	Tx: 1.5:1 Rx: 1.5:1
Operating Platform	2-Axis
Skew Control	Automatic (-90° to +90°)
Elevation Angle	0° to +90°
Azimuth Angle	360° continuous
Tracking Speed	Azimuth: ≤ 60°/s Elevation: ≤ 60°/s Pol: ≤ 40°/s
Acceleration	Azimuth: ≥ 200°/s ² Elevation: ≥ 200°/s ²
Auto Acquisition	Initial acquisition satellite time: ≤ 3min
Satellite Time	Blockage recovery time: ≤ 5s Blockage 20min
Temperature	-40° to +55°C (Operational) -50° to +70°C (Storage)
Humidity	Up to 95%
Operating Wind Loading	21m/s
Survival wind Loading	35m/s

ANTENNA CONTROLLER

ACU Size	19" Rack 1U size
External I/O	RS232C, Ethernet
Input Power	220 VAC 50 Hz
Output power	48VDC

PACKING

Size	1365 mm x 1245 mm x 555 mm
Packed by	Wooden case

WAYFARER™ WCM055KU 0.55M KU-BAND COTM ANTENNA

HOW TO ORDER

WCM055KU-NA

AC POWER PLUG NA = North America (NEMA 5/15)
UK = UK (BS 1363)
EU = Europe (CEE 7/7)
CN = China (Type I Plug)
IEC = IEC (60320 CIA)

ACCESSORY OPTIONS

BUC OPTIONS	BUC	BUC POWER SUPPLY	BUC M & C CABLE	BUC MOUNTING BRACKETS
16W	ATOMBKU016	PS300-AT1(NA/UK/EU/IEC)	CABLEM+C-AT10	WCM055KUMT-006
20W	ATOMBKU020	PS300-AT1(NA/UK/EU/IEC)	CABLEM+C-AT10	WCM055KUMT-006
40W	ATOMBKU040	PS300-AT1(NA/UK/EU/IEC)	CABLEM+C-AT10	WCM055KUMT-008
80W	ATOMBKU080	PS600-AT1(NA/UK/EU/IEC)	CABLEM+C-AT10	WCM055KUMT-010
80W (GaN)	ATOMBKUG080	PS600-AT1(NA/UK/EU/IEC)	CABLEM+C-AT10	WCM055KUMT-024

LNB OPTIONS

LNB 1000HU Series LNB with Type F (75 Ohm) Connector

IFL CABLE OPTIONS	NN-FF	NN-NN	FN-NN	FN-FF
IFL Cable (10m)	IFL-NN-FF-10	IFL-NN-NN-10	IFL-FN-NN-10	IFL-FN-FF-10

INTEGRATION

WF-INT Assembly, function verification, and pointing test (standard product/RF packages only)

Custom integration also available. Contact sales@norsat.com for more information.