



## SPECIFICATIONS

### SYSTEM

<b>Availability</b>	0.9975 (0.9999 with optional spare antenna)
<b>Handover</b>	Make-Before-Break
<b>Standards</b>	CE (UL optional)
<b>Components</b>	<ul style="list-style-type: none"> <li>» 2 antenna systems</li> <li>» 1 modem</li> <li>» 1 indoor to antenna (IFL) cable kit, 40 m</li> <li>» 1 indoor equipment kit which includes:                             <ul style="list-style-type: none"> <li>» 1 monitor &amp; control (M&amp;C) computer</li> <li>» 1 M&amp;C LAN switch</li> <li>» 1 RF switch</li> <li>» 1 redundant LNB power supply</li> <li>» 1 redundant dehydrator</li> </ul> </li> </ul>

### ANTENNA

<b>Aperture</b>	4.5m standard / 7.3m optional
<b>Configuration</b>	Elevation over azimuth
<b>Quantity</b>	2 per terminal
<b>G/T</b>	<ul style="list-style-type: none"> <li>» 4.5 m: 32 dB/K @ 20° elevation</li> <li>» 7.3 m: 37 dB/K @ 15° elevation</li> </ul>
<b>EIRP</b>	<ul style="list-style-type: none"> <li>» 4.5 m (500 W): 79 dBW</li> <li>» 4.5 m (750 W): 80.6 dBW</li> <li>» 7.3 m (500 W): 85.7 dBW</li> <li>» 7.3 m (750 W): 87.3 dBW</li> </ul>
<b>Axial Ratio</b>	1.09:1 / 0.77 dB
<b>Envelope</b>	<ul style="list-style-type: none"> <li>» <math>1^\circ &lt; \theta &lt; 48^\circ = 32-25 \log\theta</math></li> <li>» <math>&gt; 48^\circ = -10 \text{ dBi}</math> for 80% of all sidelobes</li> </ul>
<b>Tracking Error</b>	≤ 0.6 dB RMS uplink gain degradation
<b>Tracking Method</b>	Augmented program track via beacon monitoring
<b>Controller Modes</b>	Dual antenna, contingency single antenna
<b>Ephemeris Format</b>	NORAD two line elements (ASCII)

### MODEM

<b>IF</b>	950 to 2450 MHz
<b>Modulation</b>	DVB-S2 (w/ACM and all standard modulation codes)
<b>Symbol Rates</b>	10 to 180 million symbols per second
<b>Interfaces</b>	4 x Gigabit Ethernet
<b>Size</b>	1 RU

### ELECTRICAL

<b>Uplink</b>	27.6 to 29.1 GHz
<b>Downlink</b>	17.8 to 19.3 GHz
<b>IF</b>	950 to 2450 MHz
<b>Polarization</b>	RHCP/LHCP selected at order
<b>Group Delay</b>	≤ 2 ns over any 216 MHz channel
<b>Phase Noise</b>	IESS 308/309
<b>Frequency Stability</b>	$\pm 2 \times 10^{-7}$ /day
<b>LNB</b>	Non-inverting, 1.5 GHz bandwidth
<b>HPA</b>	Linearized 500 W TWTA (optional 750W klystron HPA)
<b>Indoor Mains</b>	120/230 VAC 1-phase, 50/60 Hz $\pm 3$ Hz, 3-wire
<b>Outdoor Mains</b>	<ul style="list-style-type: none"> <li>» 265/460 or 230/400 VAC 3-phase</li> <li>» 50/60 Hz <math>\pm 3</math> Hz</li> <li>» 5-wire wye optional mains configurations available</li> </ul>

### ENVIRONMENTAL

<b>Indoor</b>	<ul style="list-style-type: none"> <li>» 15° to 40° C</li> <li>» 20 to 90% relative humidity, non-condensing</li> </ul>
<b>Outdoor</b>	<ul style="list-style-type: none"> <li>» -20° to 48° C</li> <li>» 0 to 100% relative humidity, condensing</li> </ul>
<b>Wind</b>	<ul style="list-style-type: none"> <li>» Operational 64 km/h gusting to 96 km/h</li> <li>» Survival 161 km/h in stow position</li> </ul>

## MEOLINK SYSTEM OPTIONS

The MEOLink system can be configured to meet specific regional or operational requirements.

- » **7.3 meter Antennas** — for higher two way link margins and link availability in high rain fade areas.
- » **750W HPA** — for higher one way link margins for moderate rain fade areas.
- » **High Availability** — additional hot spare antenna and modem to increase the hardware availability from 0.9975 to an impressive 0.9999.
- » **Maintenance Plans** — to keep your system in top operating condition.

Please consult our ViaSat application engineers to assist you in selecting the right system and options to meet your needs.

## CONTACT



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