

# Fixed Broadband – A **Wireless** Infrastructure

Extended Broadband Capability from NSSL and TET

## Broad-IP KU Band (European & Middle East)



e-go Solutions Broad-IP service uses the latest DVB technology to provide on-demand IP access independent of the local infrastructure. Unlike many best-effort systems on the market for mass consumer use, our new service provides guaranteed quality of service by using low contention ratios at maximum 10:1 and total service support.

### Equipment

The system comprises an indoor Nera SatLink router connected to an external 96cm or 1.2m antenna. A larger antenna may be required dependent on location.

#### Indoor Equipment – Nera SatLink



The Nera SatLink satellite router is a compact set top or rack mounted terminal, which delivers bi-directional broadband connectivity and is highly scalable to easily accommodate current and future bandwidth requirements.

#### Technical Specification

##### Interfaces

User Interface	Ethernet 10/100 baseT RJ45
Satellite Interface	Rx: DVB-S Tx: DVB-RCS
Protocol Supported	Ipv4/PPP/TFTP/FTP/BOOTP SNMP/ICMP/IGMP NAT/ARP/RIP
Optional Protocol Support	Firewall, L2TP, TCP Acceleration, (DHCP, NAT)
Configuration & Management Interface	Web Interface / GUI R232 (local interface) SNMP MIB

##### Mechanical/Environmental

Power	110 – 240 VAC, 50/60 Hz Nominal power consumption 40 Watts
Size	Rack model: H 1.75" x L 19" x D 9.4" Desktop model: H 1.4" x L 11.8" x 8.2"
Weight	2.0kg (4.4lbs)
Indoor operating conditions	+5° to +45°C
Relative humidity	0 to 95% non-condensing

## External Fixed Antenna (based on 1.2m diameter dish)



### Technical Specification

#### Electrical

Operating frequency	Receive	10.70 – 12.75 GHz
	Transmit	14.00 – 14.50 GHz

#### Antenna Unit

Antenna Size	KU Band 0.96m, 1.2m, 1.8m or 2.4m	
Feed Interface	WR-75	

#### Mechanical/Environmental

Size	1.2m diameter	
Wind loading	Operational	45 mph (72 km/h)
	Survival	125 mph (200 km/h)
Temperature	Operational	-50° to 80°C

Type approved for EutelSat

## Transmitter Unit (1-4W)



### Technical Specification

DC Power Requirements	+15 to +24 VDC (37.5W max)
Dimensions LxWxH	245.4mm x 127mm x 55mm
Weight	2.3kg max
Temperature range	-40 to +55°C (Operating)
	-40 to 75°C (Storage)
Dimensions for shipping	140x133x19cm 26kg (antenna)
	62x48x49cm 16kg (modem & brackets)

## Coverage

The e-go Solutions Broad-IP European KU band service covers Europe, Middle East and North Africa.



0.96m antenna can be used within 48 dBW contour,  
1.2m antenna within 46 dBW contour,  
larger antenna required outside 46 dBW.

## Flexibility

2 Land-based services and 1 maritime/stabilised service meet most customer requirements for location, data rates and usage.

e-go is offering 3 airtime packages with data rates from 128kb/s – 2Mb and a Voice over IP service with up to 8 dedicated voice channels.

SERVICE	INBOUND* (To remote site)	OUTBOUND* (From remote site)	VOICE OVER IP (Optional)
ECONOMY	512kb/s	128kb/s	2 Channels
STANDARD	1Mb/s	256 kb/s	4 Channels
PREMIUM	2Mb/s	512kb/s	8 Channels

\*Maximum throughput - contended service

## Key Features

Data rates from 128kb/s – 2 Mb/s (contended)

Rapid Deployment

Wide Coverage Area

Guaranteed Quality of Service

Regional KU Band coverage: Europe, Middle East, North Africa

If you think an IP satellite solution can extend your capabilities in the field, talk to e-go Solutions:

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