



Phone: +972 9 7422717 Email: info@ayecka.com

www.ayecka.com

SmartLNB

Next generation interactive satellite terminal, the SmartLNB is the most integrated and advanced CPE for consumer and IoT services, powered by Ayecka's RFModem[®] patented technology. Integrates all the elements required for the home user or remote IoT terminals in a single outdoor unit, designed to operate with small DTH type of reflectors, and withstand harsh conditions, and wide temperature range.

Multi standard, designed as a software defined radio. Supports DVB-S/DVB-S2/DVB-S2X on the forward link. Operates with Eutelsat Smart LNB network, Advantech Wireless DVB-RCS system and TSAT DVB-RCS2 system. The RFModem[®] supports Ku reception of TV Signals, together with Ka or Ku reception of Broadcast Data and Ka or Ku transmission.

The terminal is low in CAPEX – terminal cost, and low in OPEX – message at cellular network cost.

The terminal can be adopted to work with any VSAT system. Integration of any waveform is easily done through its comprehensive API.

Product Highlights

All Outdoor Integrated Modem Router and RFT Consumer market targeted with low cost Efficient access scheme resulting in low service cost Reuse of existing infrastructure Standard based (DVB-S2/S2X and F-SIM, ESSA, DVB-RCS/RCS2) Compliant with legacy DTH services along with OTT advanced services Ka or Ku Transmission, Ka or Ku Reception



Product Applications

Internet Access

- High Speed Content Download
- Browsing
- Messaging
- eMails
- VolP
- Video chat

loT

- M2M
- Smart Grid and SCADA
- Transaction-Orientation
- Message-based, Random Access Large Scale Networks
- Lottery
- ATM

Interactive-TV

- VOD
- Voting
- Subscribers profiling
- Shopping
- Social TV



SmartLNB technical specifications

•

Standards supported:		Encapsulation
Outbound	DVB-S2/S2X	
Inboud	F-SIM, ESSA, RCS, RCS2	
Modulation Outbound	QPSK, 8PSK,16APSK, 32APSK	IP Routing
Modulation Inbound	QPSK, 8PSK, 16QAM	Networking
Channel Rate Outbound	60 Msps	ODU weight
Channel Rate inbound	ESSA – up to 160Kbps (640Kbps with ESSA2*)	Maintenance
	RCS/2 – limited by link budget, typically 2Msps	
Antenna size	From 74 cm (40 cm possible with long spreading sequences)	Management
Functionality	Integrated all-in-one: feeds array, RF Router and modem	Form factor
Transmit Frequency	Ka: 29.5 – 30 GHz, Ku: 13.75 – 14.5 GHz	Operating Temp.
Receive Frequency	Ku: 10.7 – 12.75 GHz (dual band, dual LNB), Ka: 18.2 – 20.3 GHz	Humidity
Connection to IDU	F-Type (Ethernet Over Coax), Ethernet (Power Over Ethernet)	Rain
STB support	Seamless integration with existing STB: DiSEqC2.0, 13/18 22kHz signaling	ODU IDU Interface Functionality
Tx Output Power	Ka: 300mW, Ku: 1W	Interfaces Towards ODU
* under development		Certificates

For more information and detailed pricing please contact: sales@ayecka.com

Copyright © 201 L td | All rights reserved | AYECKa and the AYECKa logo are registered trademarks of AYECKa. All other brands and product names are trademarks or registered trademarks of their respective owner(s).

Rx: MPE/ GSE	
Tx: RLE	

Multicast and Unicast, Static and Dynamic

DHCP server and client, NAT/PAT, SSDP

~1kg

Software, Firmware and boot loader are field upgradable using OTA protocol (Flute)

Web GUI, REST

160 x 76 x 144 mm

-33° to 60° C

0% to 100% non-condensing

<100mm/Hr

Power up the ODU by DC/Coax or POE

F-type, RJ45 (Ethernet)

CE, FCC, IP65

