



IoT and M2M services via satellite

Egatel

via **eutelsat**



INTERNET OF THINGS



SMART INDUSTRY
M2M · SCADA



SMART HOME



SURVEILLANCE
SECURITY

The 'smart LNB' is the most flexible and versatile two-way satellite terminal in the market, featuring the most advanced technology in satellite transmission. It enables the provision of innovative satellite services at a very low cost (CAPEX & OPEX) for either the Professional (SCADA networks, Energy and Agriculture Industries, Banking transactions, Point of Sales, etc) or Consumer (Interactive TV, Home automation, e-health, etc) Market.

The 'smart LNB' satellite connectivity provides the users with a secure and private connection, independent of terrestrial networks with a guaranteed level of service and outstanding SLA. It enables the use of Virtual LANs (VLANs), thus providing network segmentation, reuse of IP addresses and an augmented level of security in the IP data transactions.

As the power consumption is a major concern for many customers, the smartLNB features a set of Energy Saving Profiles that matches the reception and transmission demands of the end-application, thus drastically reducing the overall power consumption. That way, it is possible size the power supply system to meet the exact requirements of the end-application, enabling the use of clean and self-generated power technologies such as solar panels to power up the satellite modem.

The installation and commissioning of the modem is done in a few simple steps following the instructions of a mobile application, available for free for Android and iOS devices.

- Very low-cost service thanks to an efficient return link based on Cutting-Edge technologies.
- Unbeatable modem price based on a high level of hardware/software integration.
- Private and reliable satellite network with outstanding SLA.
- Equipped with Energy Saving Profiles to minimize the power consumption
- Built-in VLAN feature to enable network segmentation, reuse of IP address space and increased level of security.
- High added-value services for the Professional (smart grids, smart metering, telemetry...) and Consumer (home automation, e-Health, connected TV...) markets.
- Powerful and friendly Web GUI for management and configuration.
- Mobile application available (iOS & Android) for antenna pointing and modem commissioning.
- Express and simple installation: From the packet to operation in a few steps.

OVERVIEW OF TECHNICAL SPECIFICATIONS

ODU	
- Rx band	Ku (LB: 10.70 - 11.70 GHz HB: 11.70 - 12.75 GHz)
- Rx polarization	Linear (H/V)
- Tx band	Ku (13.75 - 14.5GHz)
- Tx polarization	Linear (H/V), selectable via Web Interface
- Tx max output power (Rms)	27dBm
- Return link modulator	Highly efficient modulator based on a low bit rate and burst transmission
- IP capabilities	VLAN support DHCP, TCP/IP, UDP, IGMP, GRE, IP Routing, IP Multicast
- Operating temperature range	-20° to +65° C
- Humidity	0 to 100% (condensing)
- Dimensions (WxHxD mm)	46x150x100 mm
- Maximum resistance of coax cable	10ohm
- Interfaces:	
- 1x F connector (female)	For connecting to the IDU
- 1x F connector (female)	For connecting to an external LNB
IDU	
- Ethernet over coaxial modem	Home Plug-AV protocol
- IP capabilities	Support of DHCP, TCP/IP, UDP, IGMP, GRE, IP Routing, IP Multicast
- Operating temperature range	-20° to +65° C
- Interfaces:	
- 1x F connector (female)	For connecting to the ODU
- 1x F connector (female)	For connecting to a STB
- 1x RJ-45 port	For connecting to user's LAN
- 1x DC jack	For connecting to the AC/DC adapter
GENERAL	
- Power management	Different Energy Saving Profiles to minimize the power consumption
- Management and configuration	Powerful and friendly Web Interface
- Firmware update	Via Web Interface, Mobile Application at commissioning time and OTA update
- Operating nominal voltage	30V _{DC}
ANTENNA	
- Type	Available in two flavours: 75cm and 120cm Ku/Ku antenna



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