



INTERNET OF THINGS

**INDUSTRY 4.0
M2M · SCADA**

SMART HOME

**SURVEILLANCE
SECURITY**

The 'IoT First' terminal 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 'IoT First' satellite terminal 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 terminal 'IoT First' 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 'IoT First' terminal is now equipped with the Power Over Ethernet (PoE) technology, making it ideal for low data rate 'pure IP' applications, such as Machine to Machine or Internet of Things services. Unlike traditional VSAT modems where the modem itself is composed by one Outdoor and one Indoor Unit that are connected via a coaxial cable, the 'IoT First -PoE' terminal only comprises an Outdoor Unit, thus providing a very low cost of acquisition and installation compared to 'Status Quo' technologies.

To start enjoying the satellite connectivity, the end user only needs to interface its unconnected system (end IP-device, LAN switch/router, etc) to the RJ-45 port of the 'IoT First' terminal through an standard Ethernet cable and complete the antenna pointing, what it can be done rapidly by a non-professional user following the steps provided by a mobile application (iOS & Android).

- Very low-cost service thanks to an efficient return link based on Cutting-Edge
- 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.
- Power over Ethernet technology: Modem equipped with a single Ethernet port to accommodate the IP data reception/transmission and power supply
- Built-in VLAN feature to enable network segmentation, reuse of IP address space and increased level of security through a standard Ethernet cable.
- 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 .

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)
Tx 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	-33° to +65° C (survival)
Humidity	0 to 100% (condensing)
Dimensions (WxHxD mm)	46x150x100 mm
Weight	1,29 Kg
Interfaces:	
- 1x Ethernet connector	For connecting to the end device
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
ODU operating nominal voltage	56V _{DC} , PoE + standard compliant
Power consumption	
- Rx and Tx	16W nominal
- Rx only	7W nominal
- Stand-by	0.5W nominal
PoE	
Type	802.3at Gigabit PoE
AC input voltage	100 - 240 Vac, -10%, +6% 47 - 63Hz
Rated output voltage	56V _{DC} ± 5% 0 - 0.54 A
Dimensions	115 x 50 x 33mm
Weight	156 gr.
ANTENNA	
Type	Available in two flavours: 75cm and 120cm Ku/Ku antenna



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