eutelsat
IoTFIRST

Ethernet over Coaxial

IoT and M2M services via satellite

Egatel

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' terminal satellite connectivity provides the users with a secure and private connection, independent of terrestrial net-works with a guaranteed level of service and outstanding SLA. It enables the use of Virtual LANs (VLANs), thus providing net-work 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 'Iot First' terminal 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 us 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 applica-tion, available for free for Android and iOS devices.

- 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.

- Built-in VLAN feature to enable network segmentation, reuse of IP address space and increased level of securitythrough an standard Ethernet cable.

- High added-value services for the Pro-fessional (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 .

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 (survival)
- Humidity	0 to 100% (condensing)
- Dimensions (WxHxD mm)	152 x 113 x 46 mm
- Weight	1,29 Kg
- Maximun resistance of coax cable	10 ohm
- 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
- Dimensions	153 x 110 x 31 mm
- Weight	190 gr
- 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 commisioning time and OTA update
- Operating nominal voltage	30V$_{DC}$
Power consumption	
- Rx and Tx	16.5W nominal
- Rx only	9.5W nominal
- Stand-by	5.5W nominal
ANTENNA	
- Type	Available in two flavours: 75cm and 120cm Ku/Ku antenna

EGATEL.SL

Web: www.egatel.es
e-mail: egatel@egatel.es

HEADQUARTERS

Av. Ourense, 1
Parque Tecnolóxico de Galicia.
32901 Ourense, España.
Phone: +34 988 368 118
egatel@egatel.es

'IoT First' © Ethernet over Coaxial
Egatel - Spain 2020 v. 1.4