



**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 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 '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 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
- 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 through a standard Ethernet cable.
- 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 .

| 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 <sub>DC</sub>   |
| 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



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