

# ***IoT First***

## **Eutelsat service with "Ayecka Inside"**

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# Ayecka IoT Terminal Over Eutelsat Service

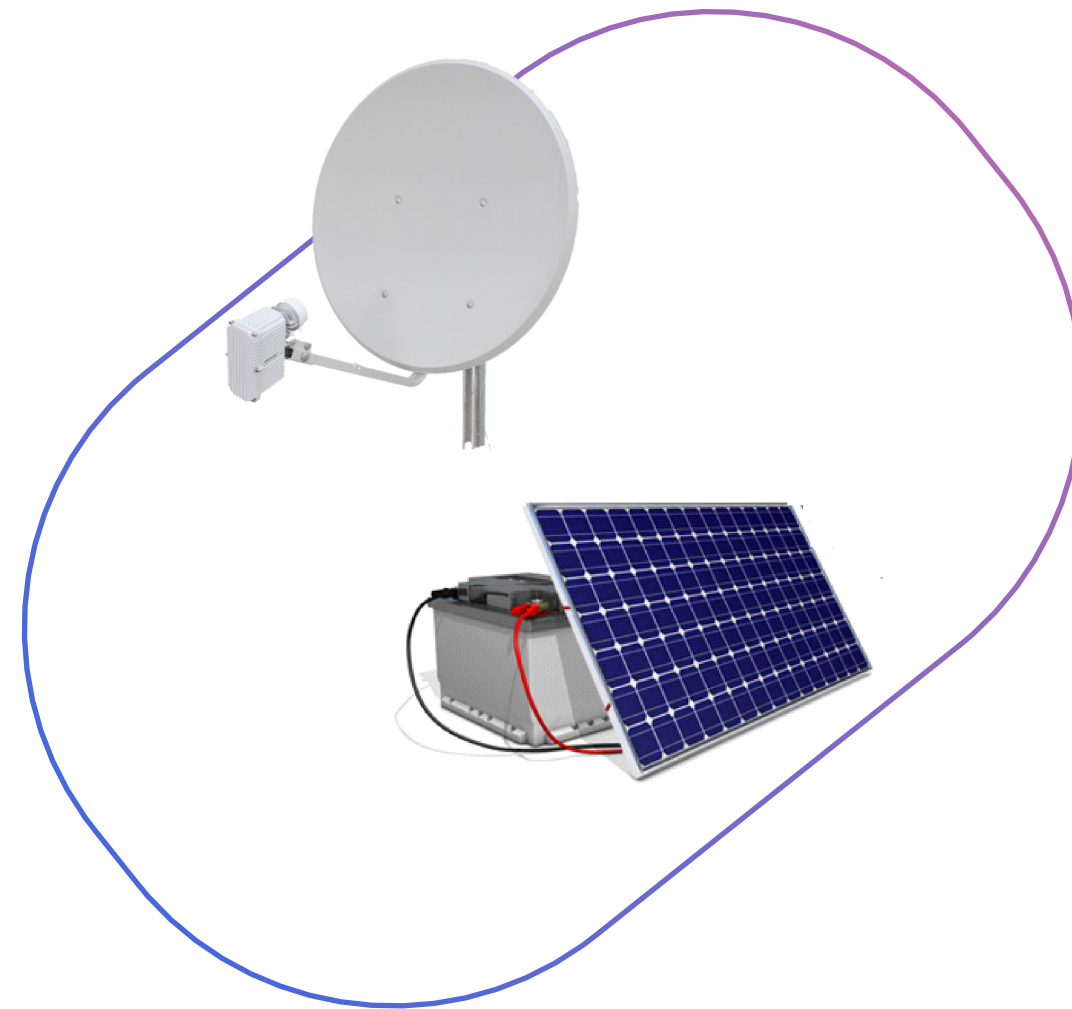
## meet IoT first

IoT First™ offers high performance and availability, supports Ku band reception for TV signals and broadcast data, and Ka-band transmission for transactional message-based large network random traffic profiles.

The terminal is competitively priced, in terms of both initial capital expenses and ongoing operating costs.

## IoT first™ main advantages

- ✓ All Outdoor Integrated Modem Router and RFT
- ✓ Low cost terminal
- ✓ Supports Eutelsat "IoT First" network
- ✓ Efficient access scheme resulting in low service
- ✓ Reuse of existing infrastructure
- ✓ Single RG6 Coax cable



## Product Applications

IoT

M2M

Smart Grid and SCADA

Smart Home

Lottery

ATM

Message-based, Random Access  
Large Scale Networks

IoT first technical specifications

Standards supported: Outbound Inboud	DVB-S2/S2X F-SIM, ESSA	Maintenance	Software, Firmware and boot loader are field upgradable using OTA protocol (Flute)
Modulation Outbound	QPSK, 8PSK,16APSK, 32APSK	Networking	DHCP, NAT/PAT, SSDP, Vlan
Modulation Inbound	BPSK FEC rate 1/3 as per FSIM standard with carriable spreading	IP Routing	Multicast and Unicast, Static and Dynamic
Channel Rate Outbound	Up to 60 Msps and 80Mbps sustainable user data	ODU weight	~1kg
Channel Rate inbound	Up to 150Kbps instantaneous user traffic	Form factor	160 x 76 x 144 mm
Inbound Channel bandwidth	2.5, 5, 10 MHz	Management	Web GUI, REST
Antenna size	From 74 Cm (40 cm possible with long spreading sequences). 75cm antenna is type approved by Eutelsat.	Operating Temp.	-33° to 55° C
Functionality	Integrated, all in one: feeds array, RF Router and modem	Rain	<100mm/Hr
Transmit Frequency	Ku: 13.75 – 14.5 GHz	Humidity	0% to 100% non-condensing
Receive Frequency	Ku: 10.7 – 12.75 GHz (dual band)	ODU IDU Interface Functionality	Power up the ODU by DC/Coax
Connection to IDU	F-Type (Ethernet Over Coax)	Interfaces Towards ODU	F-type
Tx Output Power	Ku: 1W	ODU to IDU cable	RG6, 75 Ohms, up to 100m
Encapsulation	Rx: MPE TX: RLE	Certificates	CE, FCC, IP65

For more information and detailed pricing please contact: [sales@ayecka.com](mailto:sales@ayecka.com)