

REMOTE TERMINAL UNIT CONCENTRATOR



MODEL: IOT0100 Gateway FONDA RTU500LW IoT

Application



Street lighting



Area lighting



Park lighting



Ports lighting



Community lighting

Features



LORA transmission, support LoRaWAN



Available frequency: 434Mhz, 470Mhz, 868Mhz, 915Mh(Customizable)



LoRaWAN product based on Semtech SX1301



TDMA communication, maximize the use of bandwidth



10 channels: 8*Multi-SF + 1*Standard LoRa + 1*FSK (Standard single channel, optional double channel)



Cloud server, user-customized Internet of Things system



Multi-terminal: A gateway can control up to 3000 LoRa nodes



Long Distance: up to 5km radius(Open Spaces)



Multi-interface: Multiple NS connections such as Ethernet, Wi-Fi, 4G.

Basic Information

Model	FONDA-RTU500LORA
Voltage	12VDC
Current	2A

Communication

Frequency	434MHz、470MHz、868MHz、915MHz (Customizable)
Bandwidth	125k-500k (can be configured)
Channels	Uplink 8 channels, Downlink 4 channels
Distance	Urban 3 ~ 5Km , Suburbs 5 ~ 10Km
Coverage	20km visual distance
Sensitivity	-142dBm at least

Working Environment

Temperature	-30 ~ +80°C
Humidity	5% ~ 95%
Waterproof	IP65
Size	215*180*80mm
Weight	1KG
LoRa Antenna	483×25mm (2dBi)
ESD Protection	8KV

Architecture

Processor	TI AM3352 A8 800MHz
RF	SX1301 SX1255/SX1257
Operating System	Linux
Standard	LoRaWAN
Topology	Star
Gateway Configuration Interface	Ethernet, WIFI
Gateway to Server	Ethernet, WIFI, 4G
Data Storage	128M