

FTP-300

FTP-300 is a durable solar charged power solution with PoE in a small form factor ideal for Wi-Fi hotspots, surveillance cameras, microwave CPE's, cellular gateways and more.



About

FTP-300 is designed for “**Deploy & Forget**” deployments in remote areas and for operation under harsh environmental conditions.

FTP-300 is designed for energy efficiency and compatibility with a wide range of solar panels, thus mitigating the emissions and air pollution caused by diesel and coal powered connectivity infrastructure.



Each FTP-300 approximately **saves 175 kg of CO₂ emissions per year**, thereby contributing to the achievement of [Sustainable Development Goal 7](#)

FTP-300 benefits



Powerful long-lasting battery

FTP-300 can provide up to 60 hours of battery backup to a Wi-Fi access point or be deployed with less battery capacity to minimize cost of batteries. The battery cells may last for up to 10 years.



Deploy and forget

FTP-300 is designed to work in harsh and remote locations. To conserve battery longevity, FTP-300 turns off when power levels become too low to sustain further usage. When the charge level is back above the threshold, FTP-300 automatically turns on again. No human intervention required.



Multiple options for power input

The high-grade built-in MPPT means that FTP-300 is perfectly coupled with solar panels. It can also work with AC power with the Fuzion IP-67 outdoor rated AC/DC adapter.



High power to size ratio

Leveraging Li-ion batteries, FTP-300 delivers an unprecedented amount of power compared to its small size.



Versatile

Having a separate DC output and two back-to-back connected data connectors, which individually can be PoE enabled, FTP-300 can be used in multiple applications such as powering wireless access points, surveillance cameras, wireless bridges and repeaters, fiber ONUs, and remote lighting systems.



Remote power monitoring

FTP-300 has built-in IoT capabilities including remote monitoring capabilities. The Smart Power feature can be demonstrated and will soon be available on trial mode on request

FTP-300 – 300Wh Networked Power Unit

High capacity Li-Ion battery bank.
~10 years lifetime.
Available with 300 Wh and 150 Wh of backup power.

Efficient 6.25 A charger.

IP 65 powder coated aluminum cabinet.

24V AUX with terminal inputs. Powers non-POE equipment.

Ethernet port for transferring telemetry data (IoT).

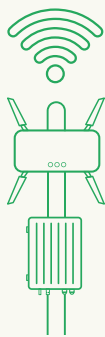


2 x MC4 connectors.
Connects solar panels
and AC/DC adapter.

2 × 100 Mbps Passive POE Ethernet
ports (0 V, 24 V, 48 V).
Connected back-to-back for on-site
communications.

Solutions

Ideal for Wi-Fi hotspots, surveillance cameras, microwave CPE's, cellular gateways and more. Everything you need for smart city projects.



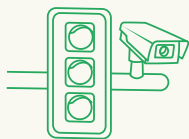
Municipal Wi-Fi



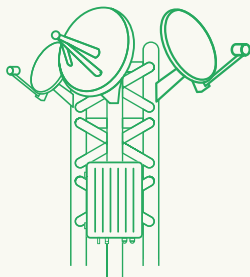
Video surveillance



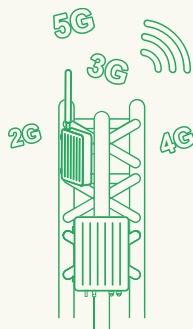
IoT installations



Traffic control



Microwave relay sites



Small mobile base stations

Sustainable development

Powering networks with Fuzion directly addresses multiple UN Sustainable Development Goals

GOAL 7.2

Affordable and clean energy

By 2030, increase substantially the share of renewable energy in the global energy mix.

GOAL 9.1

Industry innovation and infrastructure

Develop quality, reliable, sustainable and resilient infrastructure ... to support economic development and human well-being, with a focus on affordable and equitable access for all.

GOAL 8

Decent work and economic growth

Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.

Technical specifications

NETWORK	
Ethernet ports	<ul style="list-style-type: none">• 2 × 100 Mbps Ethernet, connected back-to-back
POWER	
Input power	<ul style="list-style-type: none">• Voltage: 27 VDC (max)• Current: 6.25 A (max)
Power sources	<ul style="list-style-type: none">• Solar panels• AC / DC adapter (external accessory)
Output power	<ul style="list-style-type: none">• Total maximum output power (PoE + AUX): 30 Watt• 2 × 0/24/48 VDC selectable Passive PoE• 48 VDC - Max Power 30 W as PSE• 24 VDC - Max Power 30 W as PSE (15 W/port)• 1 x AUX + 24 VDC -Max Power 30 W
Output terminals	<ul style="list-style-type: none">• 2 x RJ45 data ports• 1 x RJ45 port for IoT (only)• 1 x DC cable terminal
Input terminals	<ul style="list-style-type: none">• 2 x MC4 connectors (male / female)
Solar panel specifications	<ul style="list-style-type: none">• 36 cell panels• Minimum Vmp: 18 V• Maximum Voc: 27 V
Power usage	<ul style="list-style-type: none">• Controller self-consumption : <0.9 W
GENERAL	
Model number	<ul style="list-style-type: none">• FTP-300-B300-G-R1
Warranty	<ul style="list-style-type: none">• 3-year hardware warranty

Technical specifications

BATTERY	
Type	<ul style="list-style-type: none">Lithium-ion 18650 cells3.6 V, 3,400 mAh
Capacity	<ul style="list-style-type: none">300 Wh
Output terminals	<ul style="list-style-type: none">2 x RJ45 data ports1 x RJ45 port for IoT (only)1 x DC cable terminal
PHYSICAL	
Mounting	<ul style="list-style-type: none">Tower, pole, wall
Dimensions	<ul style="list-style-type: none">Height: 27 cm / 10.6 inWidth: 21.4 cm / 8.4 inDepth: 9 cm / 3.5 in
Operating temperature	<ul style="list-style-type: none">Charging: +0°C to +45°C / +32°F to +113°FDischarging: -20°C to +60°C / -4°F to +140°F
Weight	<ul style="list-style-type: none">3.90 kg / 8.60 lbs
Box IP-Rating	<ul style="list-style-type: none">IP65
Material (Box)	<ul style="list-style-type: none">Die-cast aluminum box, stainless steel mounting brackets

Related accessories

We offer a range of accessories that allows you to install and operate FTP-300 with any supported network equipment in any location.

AC Power Support

Part#: FTP-ACC001-EU-R1, FTP-ACC001-UK-R1, FTP-ACC001-US-R1

IP67 outdoor rated AC/DC adapter with MC4 connectors for the FTP-300 available in EU, UK and US variants.

12V DC Conversion Kit

Part#: FTP-ACC002-G-R1

12V DC Power Interface for the FTP-300. Enables powering of 12 V fiber ONUs and other small devices.

Gbit Upgrade Module

Part#: FTP-ACC003-G-R1

Plugin-module for the FTP-300. Enables gigabit networking on the Power Over Ethernet ports.

Small Solar Panel Mounting Structure

Part#: FTP-SOLAR001-G-R1

Small solar mounting structure for 1-2 solar panels. Can be mounted on poles and walls.



Powertec Telecommunications is the authorized regional distributor of Fuzion products and services.

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