



OTL25-ESD100-5G: Integrated Solar 5G PoE Wireless Router

IP56



DATASHEET

- Higher Speed | Lower Latency | Larger Capacity | 5G Unrivaled Speeds Up to 4.67 Gbps*
- Two Modes in One 4G/5G Router Mode | Durable Outdoor IP56 Enclose | Easy & Flexible Installation
- Wi-Fi 2.4/5.8 GHz | Dual Sim Card | PoE | Energy Backup
- Solar Energy

Key Features

- ▶ The OTL25-ESD100-5G is an industrial-grade, all-in-one system providing high-speed 5G/4G connectivity, Power over Ethernet (PoE), and a continuous solar power supply for remote deployments.

▶ System Overview

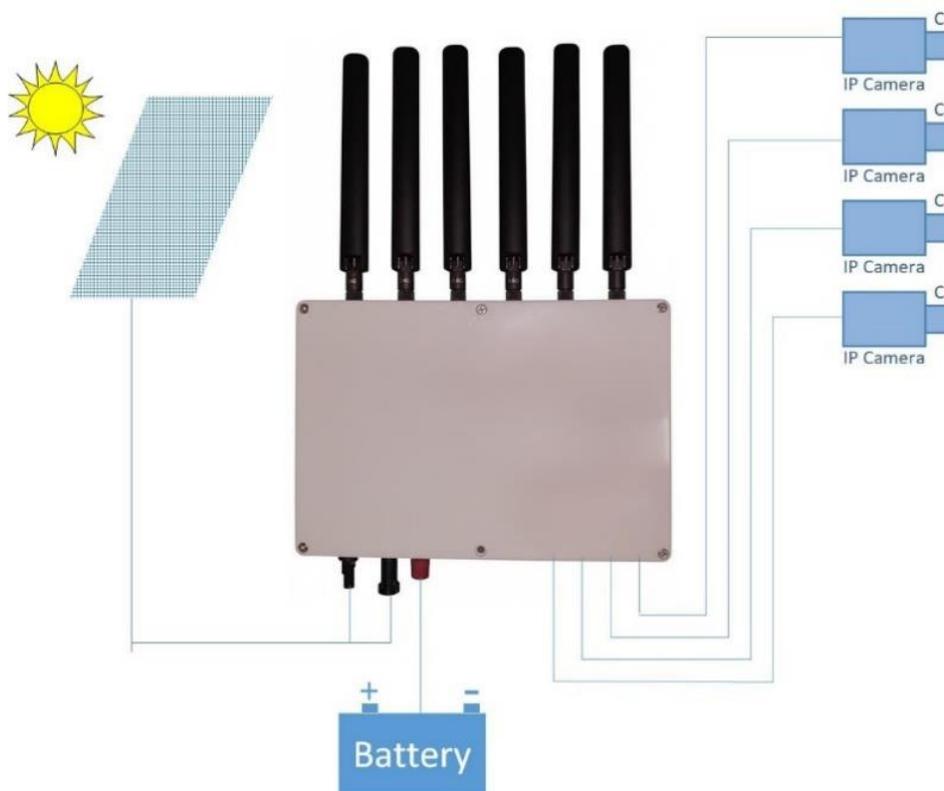
Parameter	Specification
Model Number	OTL25-ESD100-5G
Product Type	Integrated 5G/4G Router, PoE Switch, and Solar Energy System
Enclosure Rating	IP56 (Dust and Water-resistant)
Typical Operation	24 Hours Daily

▶ Router & Network Specifications

Parameter	Specification	Notes
Cellular Connectivity	5G / 4G (LTE)	-
SIM Interface	Dual External SIM Card Slots	Supports Load Balancing and Failover
Wi-Fi Standard	WiFi 6 (IEEE 802.11 a/b/g/n/ac/ax)	AX3000 capability
Network Ports	4 x 10/100/1000Mbps RJ45 LAN/PoE Ports	Auto MDI/MDIX Support
Reliability	Hardware Watchdog Functionality	Auto-restart on failure

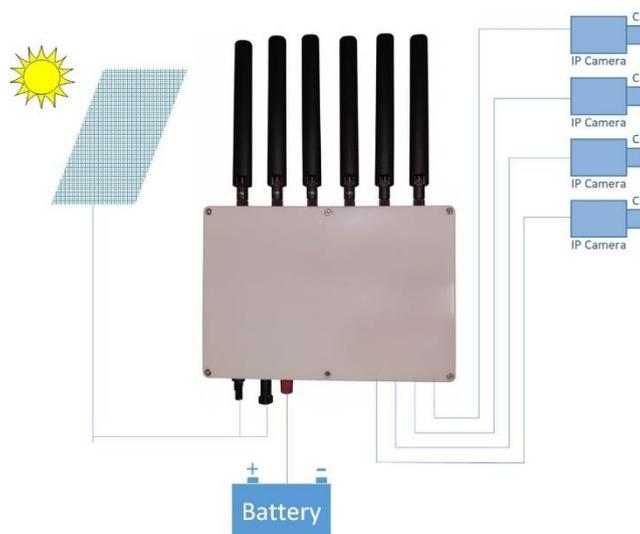
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► Power System & PoE Output



Parameter	Specification	Notes
System Voltage	12V DC	Internal solar power system voltage
Solar Panel (PV)	12V, 180 Watt-peak (Wp)	External component
Battery (ESS)	12V, 100 Ah	External component
PoE Output Voltage	48V DC (Nominal)	-
PoE Ports	4	Max 40W total power output
Power Interface	MC4 (Solar), Screw Terminals (Battery), DC 12V Jack (Auxiliary)	-

Product Catalog OTL25-ESD100-5G: Integrated Solar 5G PoE Wireless Router



► High-Performance Connectivity

- Future-Proof 5G: Access the fastest available cellular network speeds.
- Dual SIM Reliability: Stay connected even if one mobile carrier's network fails, thanks to the Dual SIM Failover feature.
- PoE Power for Devices: 4 PoE Ports deliver 48V DC power (up to 40W total) directly over the Ethernet cable.

► Ideal Applications

Sector	Example Use Cases
Security & Surveillance	Remote CCTV monitoring and video backhaul.
Telecommunication	Standalone communication node or temporary network hub.
Industrial IoT	Monitoring and data collection from remote sensors and utility infrastructure.

► System Specifications (High-Level)

Specification	Details
Model	OTL25-ESD100-5G
Network Type	5G / 4G LTE, WiFi 6
Output Ports	4 x Gigabit Ethernet Ports with PoE (Max 40W)
Solar Panel (PV)	12V, 180Wp
Battery Capacity	12V, 100Ah
Protection	IP56 Rated Enclosure

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