

Scalable, Flexible and Hardened IoT Platform

- Industry-leading modularity and scalability ideal for high-bandwidth applications
- Rugged design well-suited for use on mobile assets such as locomotives, buses, and maintenance and construction vehicles
- Link aggregation, link monitoring, channel bonding, dynamic weight load balancing
- Centralized configuration management
- Support for up to 10 LTE SIM cards



The LILEE Systems™ TransAir LMS-2450-ME-100 serves the requirements of the transportation, intelligent systems, and industrial IoT markets as a seamless mobile connectivity gateway. Building on the success of the LILEE Systems WMS-2000, implemented by the North American Class I railroads, the LMS brings similar intelligent functionality to onboard systems, enabling reliable communications between the central control office and remote mobile assets with integrated LTE, Wi-Fi, GPS, and Ethernet.

Customers will have the ability to achieve seamless connectivity and safety, as well as leverage the platform for management of further business data without having to add more hardware to the already limited onboard cabinet space, thanks to the LMS' industry-leading modularity. Supporting up to 10 LTE SIM cards, the LMS delivers unparalleled broadband connectivity for high-bandwidth services and applications such as passenger Wi-Fi, video surveillance, infotainment, and fleet management and analytics.

SKU

LMS-2450-ME-100

Description

LMS-2450-ME-100 Chassis

Starter Cable Kit:

1 x Management cable with console and maintenance connections, and a reset button

1 x 4-pin T-coded female M12 power connector

LMS-2450-ME-100 Specifications

System

5 MCU Chassis
Intel-based CPU for routing and packet forwarding

I/O Interfaces

2 x Interface card blanks for Type-2 Interface Card slots
4 x Smart Module blanks for Type-1 Smart Modules or Smart Module for IC Jacket Cards
1 x Management port with console and maintenance connections, and a reset button
2 x 10/100/1000 Mbps Ethernet ports via 8-pin A-coding female M12 connectors
1 x USB 2.0 port for SSM access
1 x Power connector via 4-pin T-coding male M12
1 x Ground connector

Protocol Support

IP Routing, DHCP, SNMPv2, SMS (Short Message Service), NTP, NAT

Security

IPsec, AES Encryption, SSH, DTLS

LED Indicators

PWR, RDY, ALM

Physical Characteristics

Fanless design
IP54 compliant aluminum housing
Dimensions (H x W x L) 9.25 x 6.2 x 11.5 in (235 x 157 x 292 mm)
Net Weight 13.96 lbs. (6.33 kg)
Installation 5 MCU standard S-590 Modular Concept Unit NAS622 LSI rack mounting kit (optional)

Environmental Limits

Operating Temperature -40 to +70°C (-40 to +158°F)
Storage Temperature -55 to +85°C (-67 to +185°F)
Tunnel Temperature -40 to +100°C (-40 to +212°F)
Ambient Relative Humidity 5% to 95% (non-condensing)

Power

Input Voltage 10 to 30 VDC
Power Connector 4-pin M12
Power Consumption (max) 32 W (chassis only)

Certifications

FCC Part 15 Subpart B
EN50155
AAR S9401
EN60950-1
RoHS compliant



Power Consumption Summary

SKU	Description	Power Consumption (W)
LMS-2450-ME-100	LMS-2450-ME-100 Chassis	32 (max)
IC-GPS-P	Precision GPS Interface Card	+ 0.26 (max)
IC-LTE	4G Cellular Interface Card (USA)	+ 3.2 (max)
IC-LTE-G	4G Cellular Interface Card (Global)	+ 3.2 (max)
IC-LTE-GPS	4G Cellular + GPS Interface Card (USA)	+ 3.2 (max)
IC-LTE-GPS-G	4G Cellular + GPS Interface Card (Global)	+ 3.2 (max)
IC-WIFI-11N	802.11a/b/g/n Wi-Fi Interface Card	+ 3.5 (max)
SM-GE-6M	6-port 8-pin A-coded female M12 Gigabit Ethernet Switch Smart Module	+ 130 (max, including 102 W for total power available to PoE devices)
SM-AE-AK	Application Engine with KVM Smart Module	+ 25 (max)
SM-IC-JK	IC Jacket Card Smart Module	+ 0.8

About LILEE Systems

LILEE Systems, recently listed as an Inc. 500 fastest growing private company, delivers integrated, open, and reliable industrial IoT wireless and wired connectivity solutions incorporating hardware, software, and services. LILEE solutions are improving operating efficiency and reducing costs in a wide range of industries. LILEE is headquartered in Silicon Valley, with offices in Taipei and Amsterdam.

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