



TransAir™ LMS-2450-ME-100

LILEE Messaging Server Series for M2M/IoT Gateway and Transportation Communications and Control Applications

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



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

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 rugged hardware, 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, fleet management and analytics.

LMS-2450-ME-100 Specifications

System

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

I/O Interfaces

2 x Interface bays 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

Power

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

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)

Certifications

FCC Part 15 Subpart B
EN 50155
AAR S9401
EN 60950-1
EN 45545
RoHS compliant



Modular LMS and Interface Cards

SKU	Product Name	Power Consumption (W)	Description
LMS-2450-ME-100	LMS-2450-ME-100 Chassis	32 (max)	Modular chassis Supports up to 10 modules
IC-LTEA-PRO	4.5G Cellular Interface Card	+ 7.5 (max)	5G class performance 600 Mbps download 100 Mbps upload Dual SIM card slots for carrier switching
IC-LTEA-PRO-DR	4.5G Cellular Interface Card with dead reckoning	+ 7.8 (max)	5G class performance 600 Mbps download 100 Mbps upload Dual SIM card slots for carrier switching Dead Reckoning
IC-LTE	4G Cellular Interface Card	+ 3.2 (max)	LTE, HSPA+, GSM/GPRS/EDGE, EV-DO Rev A, 1xRTT Data speeds up to 100 Mbps downlink and 50 Mbps uplink USA version
IC-LTE-G	4G Cellular Interface Card	+ 3.2 (max)	LTE, HSPA+, GSM/GPRS/EDGE, EV-DO Rev A, 1xRTT Data speeds up to 100 Mbps downlink and 50 Mbps uplink Global version
IC-LTE-GPS	4G Cellular + GPS Interface Card	+ 3.2 (max)	LTE, HSPA+, GSM/GPRS/EDGE, EV-DO Rev A, 1xRTT Data speeds up to 100 Mbps downlink and 50 Mbps uplink USA version
IC-LTE-GPS-G	4G Cellular + GPS Interface Card	+ 3.2 (max)	LTE, HSPA+, GSM/GPRS/EDGE, EV-DO Rev A, 1xRTT Data speeds up to 100 Mbps downlink and 50 Mbps uplink Global version
SM-SDR-2400	Software defined radio	+ 83.5 (max)	High bandwidth with 4x4:4 MIMO in worldwide 2.4 GHz frequency band Guaranteed low latency of less than 20 ms
SM-ICJK	IC Jacket Card Smart Module	+ 0.8	

For more information, contact your sales representative or email sales@lileesystems.com.

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