

Platform for Industrial IoT Connectivity and Application Enablement

- Dual LTE-A and dual Wi-Fi with advanced GPS capabilities and PoE for powering on-board devices.
- Computing capabilities and terabytes of storage that allow you to run on-board applications even in the absence of connectivity.
- Built-in interfaces that support video, storage, and legacy applications.
- Fog node that enables IoT applications to deploy applets to read, receive, react, and control sensor data instantaneously.
- Integrated sensor capabilities, such as OBD-II and gyroscope, that provide driver safety and vehicle performance monitoring.



The LILEE Systems TransAir™ STS-1020 is an integrated communication and IoT application platform that serves the requirements of connected transportation, intelligent systems, and Industrial IoT. Through an advanced connectivity management system provided by the industry-leading LileeOS software, the STS can aggregate bandwidth simultaneously across LTE, Wi-Fi, and Ethernet, allowing the highest amount of throughput at the lowest possible cost – ideal for high-bandwidth applications and services such as

passenger Wi-Fi, infotainment, video surveillance, safety, and fleet management. A wide range of interface options combined with the flexibility to run customer applications directly on the STS also accelerates custom application development and deployment. In a compact, rugged, and integrated platform, the STS provides unified communications, management, and applications support to increase your business' operational efficiency.

SKU

STS-1020-A

Description

Multi-service Mobile Gateway with 2 LTE-A (APAC), 2 Wi-Fi (802.11a/b/g/n/ac), PoE+ and Application Engine

STS-1020-A Specifications

Processor / Memory / Storage

Intel Atom Quad-Core Processor
4 GB on board memory
2 x SATA SSD 2.5" disk bays (32 GB included in SATA0)
Certified Red Hat Linux OS

LTE Interfaces

2 x LTE CAT 6 (LTE-A) to support up to 300 Mbps
4 x SIM card slots
4 x LTE 4G antenna connectors (2 per LTE 2 x 2 MIMO)
LTE Band Support in APAC -
B1,B3,B5,B7,B8,B18,B19,B21,B28,B38,B39,B40,B41
Advanced Satellite System support -
GPS (US), Glonass (Russia), Beidou (China), Galileo (EU)
1 x GPS antenna connector

Wi-Fi Interfaces

2 x 802.11 ac/a/n (5 GHz) b/g/n (2.4 GHz) interfaces support up to 1.3 Gbps
6 x WLAN antenna connectors (3 per WLAN 3 x 3 MIMO)

Onboard Sensors

3-axis gyroscope and 3-axis accelerometer
OBD-II (for small vehicles) and J1939 (for buses)

Physical Interfaces

1 x HDMI connector (audio and video)
1 x DB15 connector to provide OBD-II (for small vehicles) and J1939 (for buses)
1 x Digital I/O connector (1 true ignition digital input, 3 digital-in, 2 digital-out, 6 GND)
1 x USB 2.0
1 x USB 3.0
6 x 10/100/1000 Mbps Ethernet ports – 4 of the ports PoE 802.3at Type 2
2 x RS-232/422/485 Serial port via DB-9
1 x Maintenance port (RJ45) for dedicated diagnostic connection
1 x Serial console port via RJ45
1 x Reset button
LED indicators: PWR, RDY, ALM, GPS, POE, LTE0, LTE1, WLAN0, WLAN1, AUX0, AUX1

Protocol Support

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

Security

IPsec, AES Encryption, SSH, DTLS

Remote Management

Virtual IP KVM remote management
LILEE Mobility Controller (LMC) based centralized management
RESTful APIs, WebSocket APIs, and SNMP (host and interface MIBs) for commercial network management integration

Local Management

Serial console port
Ethernet maintenance port

Physical Characteristics

Cooling design	Fanless
Housing	Metal housing
Dimensions (H x W x L)	2.6 x 7.1 x 11.7 in (67 x 181 x 298 mm)
Weight	6.61 lb. (3 kg)
Installation	Shelf and wall

Environmental Limits

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

Power

Input Voltage	10 to 30 VDC
Power Connector	4-pin terminal block header, male pin
Power Consumption	6 W Minimum (sleep)
	15 W No external connections (idle)
	61.6 W 4 PoE ports supplied to end devices
	100 W Maximum with PoE

Certifications

FCC Part15b Class A
CE
EN50155
E-Mark (pending)
PTCRB
RoHS
CB
UL



Contact your sales representative for the latest carrier interoperability

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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