TRASNA

Adam-R11

Single-mode LTE Cat 1bis modules

Product summary

Version 1

A product born from u-blox

Upgrade your IoT future with Trasna

Trasna supports over 250 leading brands across 80+ countries with end-to-end IoT connectivity hardware and software solutions for SIM, eSIM, iSIM/SoC, cellular IoT modules, and device management.

Formed through the integration of several established specialist IoT players, Trasna delivers the full cellular IoT value chain from chip to cloud. This foundation gives us unmatched control, efficiency, and innovation across the stack. By partnering with us, clients gain maximum value and a strong competitive edge.

Complete control

Enjoy end-to-end security. Everything starts and finishes with us, so you always have complete visibility and accountability at every stage

Complete efficiency

Our end-to-end solutions are designed to deliver optimal efficiency at every stage, reducing costs, time, and resources whilst ensuring fast, easy implementation

Complete innovation

We deliver cutting-edge, scalable technology, future-proofing your business with solutions that drive rapid growth and capitalise on emerging opportunities

u-blox cellular IoT is now Trasna

In March 2025, Trasna acquired u-blox's cellular IoT modules enabling it to strengthen its IoT connectivity chip-to-cloud offering in the OEM sector. This moved included u-blox's cellular module technology IP, product portfolio, and engineering team. This strengthened Trasna's position as a comprehensive cellular IoT solutions provider, offering end-to-end capabilities spanning semiconductor chip design, SIM and eSIM manufacturing, and cloud-based remote SIM and device management services.

Chip design

(e)SIM

Device mgmt

Cellular IoT modules

Trasna in numbers

Top
03
in cellular modules
Excl. China

20bn
secure connections
without breach

250+
clients
in 80 countries

25+
years'
in cellular IoT

Adam-R11

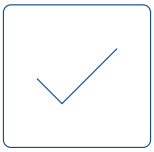
Adam-R11 is a compact, cost-optimised LTE Cat 1bis module designed for IoT applications requiring medium-speed data, global deployment, and efficient power usage. With optional embedded eSIM, integrated Wi-Fi scanning for hybrid positioning, and global or regional variants, it simplifies logistics and supports a wide range of use cases in a space-saving 18 x 18 mm form factor. Ideal for applications such as asset tracking, fleet management, healthcare, and wearables.

Same great cellular products and team, now powered by Trasna

18 × 18 × 2.2 mm

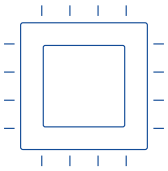
Benefits

Flexible deployment
Global and regional variants with key certifications reduce regulatory and supply chain complexity



Low total cost of ownership
Designed for applications that don't require US MNO approvals or permanent US roaming

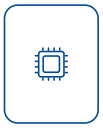
eSIM option
Integrated eSIM enables seamless, out-of-the-box connectivity



Hybrid positioning
Delivers location data via embedded Wi-Fi scanning for indoor/outdoor tracking

Power efficiency
eDRX, PSM, and deep sleep modes extend battery life for long-lasting operation

Highlights



Compact and compatible
18 x 18 x 2.2 mm footprint with LGA design, compatible with Lexi form factor for scalable product development

Global and regional SKUs
Certified for global, EMEA, APAC, and Brazil deployments with key approvals including FCC, ISED, RED, NCC, and Anatel

LTE Cat 1bis connectivity
Downlink speeds up to 10 Mbps and uplink up to 5 Mbps across a wide range of LTE FDD and TDD bands.

Integrated hybrid positioning
Supports Wi-Fi scanning for indoor/outdoor location and optional CellLocate integration

Security and reliability
Secure boot, TLS 1.3, firmware updates via UART, USB, or FOTA, and long-term durability in industrial environments

Flexible interface support
Equipped with dual UART, USB, 10 GPIOs, and supports SIMs at 1.8V/3.0V with toolkit support

Protocol-rich software stack
Supports MQTT, HTTP, FTP, TCP/IP, UDP, IPv4/IPv6, and Bearer Independent Protocol. GSMA SGP.32 (IoT RSP) compliant

Use cases

- Asset tracking and logistics
- Fleet management and telematics
- Health and wellness monitoring
- Wearables and consumer IoT
- Smart metering and infrastructure
- Safety and emergency response devices

Product features

		Adam-R11001D	Adam-R11801D
Grade	Automotive		
	Professional		
	Standard	●	●
Regions		Global	EMEA, APAC, Brazil
Access technology	LTE FDD bands	1, 2, 3, 4, 5, 7, 8, 12, 20, 28, 66	1, 3, 5, 7, 8, 20, 28
	LTE TDD bands	34, 38, 39, 40, 41	
	Data rate	Cat 1	Cat 1
Interfaces	UART	2	2
	USB	1	1
	GPIO	10	10
Features	eSIM	o	o
	TCP/IP, UDP/IP	●	●
	HTTP	●	●
	MQTT	●	●
	TLS	●	●
	FTP	●	●
	eDRX, PSM	●	●
	FW update via serial (FOAT)	●	●
	FOTA	●	●
	Wi-Fi Scan	●	●
	Antenna dynamic tuning	●	●
	Secure boot and updates	●	●

Cat 1= 10 Mbit/s DL, 5 Mbit/s UL

o = Optional

Features	LTE	LTE Cat 1bis (10 Mbit/s DL, 5 Mbit/s UL) 3GPP Release 13 Power saving features: PSM, eDRX, and cDRX
	SMS	MT/MO PDU / Text mode SMS over IMS and via SMS-C
Software features	Protocols	Dual stack IPv4 and IPv6 Embedded TCP/IP, UDP/IP, FTP, HTTP Embedded MQTT Bearer Independent Protocol GSMA Remote provisioning SGP. 32 (IoT RSP) compliant
	Firmware upgrade	Via UART (FOAT) and USB (FOAT and EasyFlash) FOTA (Firmware upgrade Over the Air)
Electrical data	Power supply	3.8 V nominal
Interfaces	Serial	2
	USB	1
	GPIO	10
	(U)SIM	Supports 1.8 V and 3.0 V, SIM toolkit
Package	133 pin LGA (Land Grid Array)	18.0 x 18.0 x 2.2 mm
Environmental data, quality & reliability	Operating temperature	–40 °C to +85 °C
	RoHS compliant	Lead-free
	Trasna qualification policy	Qualified as Trasna standard grade products
Certifications and approvals	Adam-R11001D	FCC, ISED, RED, NCC, Anatel
	Adam-R11801D	RED, NCC, Anatel
Support products	EVK-Adam-R11001D	Evaluation kit for Adam-R11001D
	EVK-Adam-R11801D	Evaluation kit for Adam-R11801D
Product variants	Adam-R11011D	LTE Cat 1bis module with global coverage
	Adam-R11801D	LTE Cat 1bis module for EMEA, APAC and Brazil

Take the next step

Grow your business with Trasna Adam-R11.
Contact your account manager to learn more.

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