



ATM774

Battery-powered 4G LTE Cat M1 asset tracker designed for long-term deployments



Asset tracking



Container tracking



Trailer security and tracking

CHOOSE YOUR TRACKING MODE

Set reporting scenarios with periodic location updates, movement-based tracking, or defined scheduling intervals

LONG-TERM OPERATION

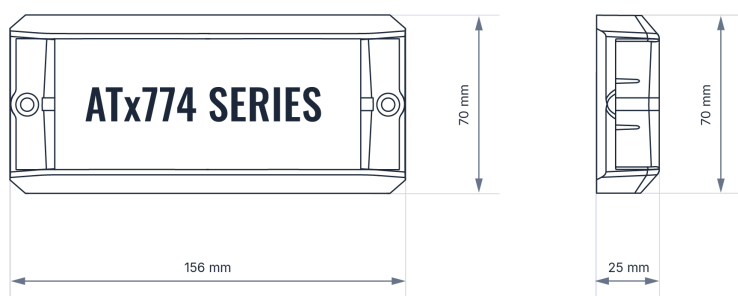
Up to 10 years of battery life, supporting uninterrupted device deployments

FLEXIBLE BATTERY OPTIONS

Select devices with primary or rechargeable batteries, depending on your use case

RELIABLE OPERATION, EFFORTLESS INSTALLATION

Protection in extreme weather conditions and fast device set-up without any wires



Product

Model name	ATM774-Q5A50 ATM774-Q5A51 ATM774-Q2A50 ATM774-Q2A51
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Module

Name	ATM774-Q5A50: BG95-M6 ATM774-Q5A51: BG95-M6 ATM774-Q2A50: BG95-M1 ATM774-Q2A51: BG95-M1
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Technology	LTE CAT M1/GNSS/BLUETOOTH® LE
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GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU
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Receiver	135 tracking/acquisition channels
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Tracking sensitivity	-165 dBm
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Position Accuracy	< 1.8 m CEP
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Hot start	< 1 s
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Warm start	< 25 s
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Cellular

Technology	LTE CAT M1
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4G LTE bands	ATM774-Q5A50 / ATM774-Q5A51: LTE FDD (CAT M1): B1/2/3/4/5/8/12/13/18/19/20/25/26/27/28/66/85 LTE FDD (CAT NB2): B1/2/3/4/5/8/12/13/18/19/20/25/28/66/71/85
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	ATM774-Q2A50 / ATM774-Q2A51: LTE FDD (CAT M1): B1/2/3/4/5/8/12/13/18/19/20/25/26/27/28/66/85
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Data transfer	LTE FDD (CAT M1): Max. 588 kbps (DL) / Max. 1119 kbps (UL)
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Transmit power	Class 5 for LTE HD-FDD: 21 dBm +1.7/-3 dB Class 3 for LTE HD-FDD: 23 dBm ±2 dB Class 2 for LTE HD-FDD: 26 dBm ±2 dB
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Data support	SMS (TEXT, PDU), Network protocols (TCP, UDP)
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Power

Internal battery	ATM774-Q5A50: Primary, 8800mAh Li-SOCl ₂ , 3.6V (32.56 Wh) ATM774-Q5A51: Rechargeable, 3200 mAh Li-Ion, 3.7V (11.84 Wh) ATM774-Q2A50: Primary, 8800mAh Li-SOCl ₂ , 3.6V (32.56 Wh) ATM774-Q2A51: Rechargeable, 3200 mAh Li-Ion, 3.7V (11.84 Wh)
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Bluetooth® Technology

Specification	5.3 + LE* EYE sensors and EYE beacons support* <i>*Development in progress</i>
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Physical specification

Dimensions	156 x 70 x 25.2 mm (L x W x H)
Weight	ATM774-Q5A50 / ATM774-Q2A50: 251g ATM774-Q5A51 / ATM774-Q2A51: 253g

Operating environment

Operating temperature	-20 °C to +60 °C
Storage temperature (with battery)	ATM774-Q5A51 / ATM774-Q2A51: ≤ 1 month: -20 °C to +45 °C ≤ 3 months: -20 °C to +35 °C ≤ 1 year: -20 °C to +25 °C ATM774-Q5A50 / ATM774-Q2A50: Up to +30 °C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP68
Battery charge temperature	ATM774-Q5A51: 0 °C to +45 °C ATM774-Q2A51: 0 °C to +45 °C
Battery discharge temperature	ATM774-Q5A50: -60 °C to +85 °C ATM774-Q5A51: -10 °C to +60 °C ATM774-Q2A50: -60 °C to +85 °C ATM774-Q2A51: -10 °C to +60 °C
Battery storage conditions	ATM774-Q5A51 / ATM774-Q2A51: ≤ 1 month: -20 °C to +45 °C ≤ 3 months: -20 °C to +35 °C ≤ 1 year: -20 °C to +25 °C ATM774-Q5A50 / ATM774-Q2A50: Up to +30 °C

Interface

GNSS antenna	Internal High Gain
Cellular antenna	Internal High Gain
USB	2.0 USB Type-C
LED indication	1 status RGB LED light
SIM	Nano-SIM
Memory	16MB internal flash memory

Data codec

Codec support	Codec 8 Extended
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Features

Sensors	Accelerometer
Scenarios	Periodic tracking, Movement-based tracking, Scheduler
Sleep modes	Custom sleep mode
Configuration and firmware update	FOTA WEB, Telematics Configuration Tool (TCT)
Time Synchronization	GNSS, NITZ, NTP

Certification & approvals

Regulatory	ATM774-Q2A50 / ATM774-Q2A51: (Pending) FCC, IC, PTCRB, AT&T, Verizon, T-Mobile ATM774-Q5A50 / ATM774-Q5A51: (Pending) CE RED, UKCA, RCM, E-Mark, NCC, KC, JATE/TELEC
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