QUANTUM INVENTIONS SDN. BHD.

Results validity is from **May 2026** onwards.

A. BASIC FEATURES

#	Items	Minimum Requirements (I)		Score	Additional Requirements 1 (II)	Score	Additional Requirements 2 (III)	Score
1	Trip History Data	Min. stored month	3 months	✓	>3 months to 1 year	✓	More than 1 year	–
2	Real-time Tracking	Yes	Available	✓				
3	Map	Source	Closed source	✓	Open source	–	Open source with latest update	✓
4	Geofence	Yes	Radius geofence	✓	Polygon geofence	✓		
5	Geofence Alert	Yes	System alert	✓	Notification (SMS, WhatsApp, Call, etc.)	–	Push Notification	✓
6	Vehicle Status	Yes	Parked, Driving, Idling	✓				
7	Engine ON / OFF Detection	Yes	System alert	✓	Report available	✓		
8	Overspeed Detection	Yes	Available	✓	Report available	–	Configurable	✓
9	Overspeed Alert	Yes	System alert	✓	Notification (SMS, WhatsApp, Call, etc.)	–	Push Notification	✓
10	Built-in / Offline Memory	Min. mins	Last 15 mins	✓	>15 to 60 mins	–	> 60 mins	✓
11	Backup Battery	Min. hours	1 hour	✓	>1 to 24 hours	–	> 24 hours	✓
12	Sim Card Network	Yes	2G	✓	4G fall back 2G	–	Roaming	✓

For any related inquiry, kindly email to:
✉ **cvu@miros.gov.my**

A. BASIC FEATURES (cont'd.)

#	Items	Minimum Requirements (I)		Score	Additional Requirements 1 (II)	Score	Additional Requirements 2 (III)	Score
13	Device Connectivity Support	Yes	4G	✓				
14	Device Multilingual Support	Yes	English	✓	Other language	✓		
15	User Manual	Yes	English	✓	Other language	–		
16	Warranty Period	Yes	Min. 12 months/ based on subscription	✓	> 12 months	✓		
17	Customer Service	Min. operation hours	Mon – Sun: 0900 – 1900 (Local)	✓	24 hours, 7 days per week	–	Physical Control Centre Available	✓
18	OS Compatibility	Yes	Web	✓	Apps	✓	Mobile View	–
19	Trip Report	Yes	Coordinates, Local time zone, Speed	✓	Driving duration, rest duration	✓		
20	Data Transmission Interval	Yes	1 minute	✓	30 second to <1 minute	–	< 30 seconds	–
21	Harsh Acceleration	Yes	Available	✓	Report available	–	Configurable	✓
22	Harsh Acceleration Alert	Yes	System alert	✓	Notification (SMS, WhatsApp, Call, etc.)	–	Push Notification	✓
23	Harsh Braking/Crash Detection	Yes	Available	✓	Report available	–	Configurable	✓
24	Harsh Braking/Crash Detection Alert	Yes	System alert	✓	Notification (SMS, WhatsApp, Call, etc.)	–	Push Notification	✓

B. ADDITIONAL FEATURES

#	Items	Minimum Requirements (I)		Score	Additional Requirements 1 (II)	Score	Additional Requirements 2 (III)	Score
1	Tow Detection	Yes	Available	✓				
2	Panic/ Emergency Button	Yes	Available	–	SMS / WhatsApp	–		
3	Apps Multifactor Authentication/ Security	Yes	OTP, Security PIN	–				
4	SOP on Technical Problem	Yes	Solved in 3 business days	✓				
5	Device Service Records	Yes	Installation, Renewal, Diagnosis, & Warranty Records	✓				
6	Driver Identification	Yes	Tracking device comes with driver ID	–	Report (according to driver)	–		
7	Certification	Yes	SIRIM & CE	✓				
8	Immobilizer	Yes	Available	–				
9	Tampered Alert	Yes	System alert	✓	Notification (SMS, WhatsApp, Call, etc.)	–	Push Notification	✓

Note:

✓	Yes
–	No
	No requirement

Company : **QUANTUM INVENTIONS SDN. BHD.**
Report validity : **May 2026 – Apr 2028**
Device name : **FMC650**
Package : **Advance Package**

2026	★★★★

C. SCORE DISTRIBUTION

A. BASIC FEATURES		B. ADDITIONAL FEATURES		TOTAL SCORE
3.261	+	0.825	=	4.09

D. MARKING EVALUATION

Final Points	Star Rating
4.50 – 5.00	★★★★★
3.75 – 4.49	★★★★
3.00 – 3.74	★★★
2.00 – 2.99	★★
1.25 – 1.99	★

★ Assessment was conducted on 27 Apr 2026. Assessed and reported by MIROS (MSA, AA, HA).

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PRODUCT OVERVIEW

Quantum Inventions FMC650, Advance Package

The Teltonika FMC650 is a professional-grade GPS tracking device built for advanced fleet management and telematics applications. Equipped with 4G LTE Cat 1 connectivity (with 2G fallback), it ensures reliable global communication and real-time vehicle monitoring across diverse regions.

One of its key strengths is its high-precision GNSS module, supporting multiple satellite systems (GPS, GLONASS, Galileo, BeiDou), delivering accurate positioning even in challenging environments. The device also supports CAN bus data reading, enabling deep vehicle diagnostics, fuel monitoring, and driver behavior analysis—ideal for logistics, heavy transport, and specialized machinery.

The FMC650 integrates seamlessly with powerful fleet management dashboards, where users can monitor vehicle location, trip history, driver activity, and maintenance alerts in real time. Through compatible software platforms and mobile apps, businesses gain full visibility and control of their fleet operations, improving efficiency and reducing costs.

In terms of connectivity and expandability, it supports Bluetooth 5.0, RS232/RS485 interfaces, and multiple external devices such as sensors, RFID readers, and tachographs, making it highly adaptable to complex use cases.

For support and device management, Teltonika offers a robust ecosystem including FOTA Web for remote firmware updates, configuration tools, and a comprehensive knowledge base, ensuring smooth deployment and long-term reliability.

Overall, the FMC650 is a powerful, scalable GPS solution designed for businesses that require precision tracking, advanced analytics, and dependable support infrastructure.