QUECTEL

ESG

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

2025

2025 1 1 2025 12 31

GRIStandard2021
(SDGs)

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14
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4 —
CASS-ESG6.0_

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	Quectel Wireless Solutions Penang Sdn.Bhd.

https://www.quectel.com.cn/
www.sse.com.cn
yiyuan@quectel.com 021-51086236-6778

01

04
06
07
08
08

- 5G
- 4G
- LPWA
-
- 3G/2G

- 5G/ 4G/
- V2X
- /
- GNSS
- (Wi-Fi/ Bluetooth / UWB/)
-

- 5G
- 4G
-
- SBC
- AI Box

- Wi-Fi
- Bluetooth
- Zigbee/ Thread
- LoRa/ Wi-SUN/ WM-Bus/ other Sub-GHz
- Wi-Fi HaLow
- Amazon Sidewalk
- Matter
- UWB
-

GNSS

- DR
- RTK
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- IMU

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- AI+
- XR
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- ODM/ JDM
- EMS
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- RTK
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- OBD
- DVR
- UBI

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2025
Evoride
™
AI
AR
2024
FMA
®
AIPC
Wi-Fi7
AI
2023
RedCap
2022
2018
C-V2X
2019
A
603236
5G
2020
ISO27001
2021
ASPICECL2
2017
LPWA
LTE-A
LTE
2016
3GPP R13
GSMA
NB-IoT
2015
2014
ISO16949
2G/3G/4G/GNSS
2010
GSM/GPRS
M10
2011
2012
2013

2025

2025

“ ”

“ 2025 ”

2025

“ ” “

ESG

405	38.39	100%	100%	101
21,356		19.51	8.02%	68.13%
778	CSR 100%	198.3	1,583	

161.03	ISO14001	271.7	0.016 tCO2e/

02

ESG

11
13
15

ESG

2030

UNSDGs2030

CSR

100%

198.3

2025

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DEI

“ + +AI + ” + AI

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2025

159

01

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03

04

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2025 27 9 13 5 “ ”

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ESG

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	•	• • •		
	•	• FAE		
	•	• • • ODM		
	•	• •		
	•	• • ISO27001 ISO27701		
	• AI 6G	• AI 5G •		
	•	• •		

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03

清洁饮

19
22
25
28
31
31
32
34

2 RCP8.5	3-4 2100
2 RCP2.6	10

TCFD

RCP2.6 RCP8.5

	AI	“ + +AI + ” + AI		
	AI			
	ESG	ESG ESG ESG		

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01 02 03 04

3,000

11.18 271

		2025
		61.46
		38,331.42
		38,392.88
	/	0.016
		1,438.83

2025 12 2023

161.03

ISO14001

ISO14001

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100%

EHS

2025

100%

100%

2025

0

100%

100%

2026

2025 5%

2026

2026

2025

70%

EHS

EHS 100%

2025

117.5

8,726

				• +
				•

		2025
PM		0.35
		0.329
		181,422.35
COD		3.6
BOD		3.6
		1.56
		1.1
		0.04
	/	0.075

		•
		• 100%
		•
		•
		•

		2025
		1,904.79
		75.19
		1,829.60

“ 2024 ”

“ 2025 ”

/

2025	368.86

	• 2 • •	• •
	•	•
	•	•

	• “ ” •	• •
	• • •	•
	•	•
	•	• 0.9

	• 1,250kW : • 5,300kW
	•
	•

2025 10 2025 21.69

2026

2026 2025 2026

		2025
		7,185.33
		1,873.54
		16.84
		3.46
		8,925.40
	/	0.004
		271.17
	%	5.3

“

”

2026 2025

		2025
		273,156.69
	/	0.112
		700

‘ ’ FUN

2025 “ ” “ ”

“ ”

+10% 3R

2025

“ ”

3mA/12V
5G

— HCM511S MCU

HCM511S LCC 16.6 mm × 11.2 mm × 2.1 mm 0.57 5.4 +6 dBm

— KCM0A5S Wi-SUN

KCM0A5S 28.0mm x 22.0mm x 3.15 mm LCC -40 +85 IEEE 802.15.xg/e Wi-SUN FAN 1.1 2.4 Mbps

RTK GNSS RTK

AI + ≤ 1.5

85% VOC

SLAM 3D

5%-30% 1 10 CO2

5G

04

4 优质教育

5 性别平等

8 体面工作和经济增长

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APQP
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ISO9001 IATF16949

99	920	560
	.....	

ISO9001

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- “ ”

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- PCBA

- SPC
-
-

-

RoHS REACH
PBB

RoHS

RoHS

RoHS

2025
31 Lesson Learn

PR VIS

2025
+
45
24

+

2025
360
Python Smart 4G/5G
Open GNSS

“ ”
2025
60
21.9 +

FA Return
Material Authorization Instructions
7 × 24

“ ”
Chatbot

QQ

/

- Confuence 2025 2,904
- “ ” Top3

- BBC News

- 2025 790 38 820+
- FAE 2 “ + + ”

“ ”
”

•	• “ ” “ ”	• FAE • RMA

6 | 36

“ ”

14 e-service
JSD

2025

		2025
		99.82%
	0%	
		2025 1,300 CCC,NAL,SRRC CE FCC IC JATE,TELEC KC ANATEL 260 1000 8,700+
		91.8% 90% (FAE) 99.5% 98.26%
	90%	92%
	100%	100%

2025 15 600

“ ”

CNAS

“
” “ ”
“ + ”
2025 AI 5G
AI “ + ”

2025

“ + ”

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“ ”

2025

103

47

2025 “

” 1,700

—

2025 “ ”

109 5 30+

1 2 “

→ + → ”

2025

12 560 95.81

2025

GB/T29490 “ ” “

”

3GPP
CCSA
2025 2 11
3GPP
5G-A

5G AI
/ AI

2025 2,008

2025

FWA " 5G+AI "

RG620UA-EU5G V20 ,
CPE " 5G+AI "
R16 —
SA 4.67Gbps 1.25Gbps
AI

-

-
-

- 2025 64.8

-

LTE “ ”

LTE
“ ” D2C
“ + ”

GNSSLG290P ,

GNSS
LG290PGNSS RTK
± 1cm

15%-20%

Robrain AI V2.0

Robrain AI V2.0
AI
AI QSM882GP

AI

2025

45.84%
197

	2024	2025
( )	4,184	6,102
(%)	71%	68.13%
(,CNY)	16.69	19.51
(%)	8.97%	8.02%
	219,500	200,161
%	91.5%	93%

		2024	2025
		568	778
		199	308
		440	659
		303	327
		363	327
		7	6
		51	81
		88	110

“ ”

- SMT
  PCB
- 100%

- AGV
  AGV
- WMS MES “ ”
- WMS
- 90%
  BPM

- SAB WMS
  QMS MES
- EMS
  MES

- 2025
-
-

2025 “ + +AI + ” + AI

DynaBlue “ ® ”
® AI LXC FMA
QuecOpen FBS
AI TCU FSC200
SOP 5GR18 FPS100
AI AI
PIN
GNSS
LG680P

VA500-GLAI
AI
FGM842D
Wi-Fi4&BLE5.2
RD6000CC

AI ™

2025 VAS ValueAddedService AI ™
AgenticIoT AI
AI •
Robrain ATEX
• WEB/APP OTA
Wi-Fi RS-485

V2X

2025 V2X

10%-20% 15%

AI

“ 4G AI ” “ +AI ”

“ ”

- 4G EC800M-CN
- AI
-

2025 AI AI 5G

5G-A AI

AI AI

AI AI

AI	
AI	• AI AI • AI AI
	• AI
	• AI • AI
	•

2025

ISO/IEC27001

ISO27701 ISO21434

TISAX2

	IT	AD IT

	90	%
	100	%

	• POC • •

ISO14001 ISO27701 ISO/IEC27001 TISAX

	• BIA 5 • • IT
	• FTP SharePoint OneDrive PI •
	2025 • 13 2,400 100% • 5 4,768 561 100%

2025 “ ”

ISO21434 GB/T32960

2025

DIPA

DIPA

HSM

TLS

WPA TARA HSM

		2025			
	0	0	0	0	0
	0	0	0	0	0
(30)	0	0	0	0	0
	100%	95%	95%	92%	98%
(	100%	0	0	1	4

	• •
	• • • / • / RoHS • / RoHS REACH RoHS

ESG ESG

ESG “ ” “ ” 80%

10%

CSR

ESG		
		1

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AEO

- AEO

AEO

2025	
	544
	35
CSR	100%
	100%
ISO14001	234
ISO45001	109
/	98.71%

RoHS REACH
2025

REACH

Declaration of Conflict-minerals Free

AIoT

AI 5G

“ - ”

3GPP
CCSA
GSMA

2025 MWC

2025
MWC
3Tx L4S RG620T RG660MK 5G
5G AI

Robrain AI
“ ”

WAIC 2025

2025 7 WAIC 2025
AI
WAIC “ + ”

CIIF 2025 AI

2025 9 “ ” 2025 CIIF
® AI
AI SOP AI AI PIN
“ ” “
” “ AI ” ®
AI+

Robrain AI IHR 2025

2025 10 “ • ” 2025 IHR 2025
Robrain AI “ + ”

“ ”

18

Moka

2025

100% 100%

“ + ” “ + ”

2025

2025

35

587

3,708

770

12.31%

12.31% 7.6%

2026

AI

Moka

2025

2025

2025

4

PCB

	& “ ” APP

“ ”

2025 8 “ ” “ ” APP

-

2025 12 “ ”

/ /

2025

2025 7 2025

“ ”

“ ” HR

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2025

939.51	87%	187.39
	8.09	31.95%

EIP CEO	0~14 /
 CEO	

	• / • / • • “ ” “ ” “ ”
	7 ( )

2025 118

" "

2025 3 “ ”

2025 8 “ ”

2025 120 “ ”
48 400+
“ + ”
2025 100%

2025
30 8,000
8,000

2025 300+
“ ”
“ -
” 98% “ ”
“ ”

2025
43

	2025	
	405	
	343,797	
	38.39	
	97.7	%
	58,695.6	
	96.2	%
	21,726.9	
	98.3	%
	1,056.8	
	100	%

10 42 4,266 98.9%

2025 101 31.1

2025

2025 80 40,000

2025

DIY

“ - - - ”

“ — — ”

26 AED 5 +

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“ + + ”

2025	
	151.5
	21,356
	1,982

“ ”

EHS

EHS

	2025
	61.18
0%	
100%	339.95
100%	66.82
	789 100%
100%	

AI

.

NB-IoT 5G

AI

®AI

“ ” “ ”

PPP AI

“ ”

FMA ≥ 30% 18%

75% 97%

AB

“ ”

FMA310

FMA210

“ ”

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5G

	5G/5G-A AI 100 “ 5G+ ”

“ + ”

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2025 2.69

- “ ”
- 160 15
- 0 1 8 96
-

2025

“ • ”		2025 “ • ” “ ”
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“ ”

2020 475.01
12,135

2025 100

2

	2025 “ ” 1,772 96.3 2025 12	
	2024 3,499 2025 3	

2025		
	618	
	44.14	
	1,583	
	198.3	

05

16 和平、正义与强大机构

17 促进目标实现的伙伴关系

77
79
80
81

2025			
	1	3 2	28 100%
		4 100%	25 100%
		8 100%	77 100%

	5	14
	2	5
	0	0
	1	6
	100%	

“ ”

20%	80%

60%	40%

35-45	45-55	55
20%	60%	20%

80%	20%

2025 5 2 40%

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ESG

2025

137 4 133
2025 B 2022~2024 A
ESG Wind ESG AA, ESG A EcoVadis
Committed

2025 4,395.42 3,570
CMS

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(2020)

2025

- 656 79%

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	• 100%
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/ “ ” 2025

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2025		
	2,834	
	178	
	100	%
	26	
	100	%
	2	
	1	

- EIP

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14 —	

GRI Standard 2021		
GRI 2		
2-1		
2-2		
2-3		
2-4		
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2-13		
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2-16		
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2-18		
2-19		
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GRI Standard 2021		
2-24		
2-25		
2-26		
2-27		
2-28		
2-29		
2-30		
GRI 3		
3-1		
3-2		
3-3		
201		
201-1		
201-2		
203		
203-1		
203-2		
204		
204-1		
205		
205-2		

GRI Standard 2021		
205-3		
206		
206-1		
207	2019	
207-1		
207-2		
207-3		
301		
301-1		
301-2		
301-3		
302		
302-1		
302-2		
302-3		
302-4		
302-5		
303		
303-1		
303-2		
303-3		

GRI Standard 2021		
303-4		
303-5		
304		
304-2		
305		
305-1	1	
305-2	2	
305-4		
305-5		
305-7	NOX SOX	
306		
306-1		
306-2		
306-3		
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306-5		
308		
308-1		
308-2		
401		
401-1		

GRI Standard 2021		
401-2		
401-3		
403		
403-1		
403-2		
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403-10		
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406		
406-1		
408		

GRI Standard 2021		
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416		
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418-1		

QUECTEL

移远通信