SHANGHAI MOBILETEK COMMUNICATION LTD.

Module Product Roadmap

2024-4

www.mobiletek.cn

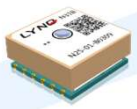
General Evolution Roadmap

MobileTek
Smart solution for a smarter world

2G
2G
14x18/15x17mm

L206
L218

GNSS
GNSS
10x10/12x16
16x16mm



N10
N20
N26
N31B
N32H
N50

NB-IoT eMTC
LPWA
15x17/
20x24/21x25mm

L651
L660
L710
L720

Lte
CAT1
20x18/21x25/
30x30mm

L501
L503
L510
L511

CAT4
30x30/
29x32mm

L508
L509

5G&Automotive

T800
T106
L803
WG710

5G

V2X
VEHICLE-TO-EVERYTHING

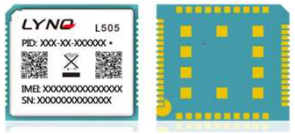
$

FAST

CAT1 with 2G fallback

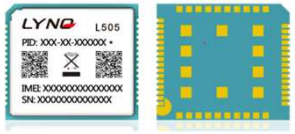
MobileTek
Smart solution for a smarter world

MT size



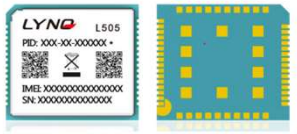
L510E(N)-3

ASR 1603 chipset
21.5x25mm
LTE DL/UL 10/5Mbps
Band B1/3/7/8/20/28
GSM Dual Band
GNSS optional
Jamming Detection



L510C(N)-3

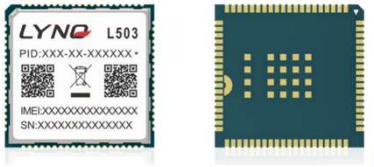
ASR 1603 chipset
21.5x25mm
LTE DL/UL 10/5Mbps
Band B1/3/5/8/40/41
GSM Dual Band
GNSS optional
Jamming Detection



LATAM

L510LA(N)-3

ASR 1603 chipset
21.5x25mm
LTE DL/UL10/5Mbps
Band B1/2/3/4/5/7/8/28/66/40
GSM Quad Band
GNSS optional
Jamming Detection



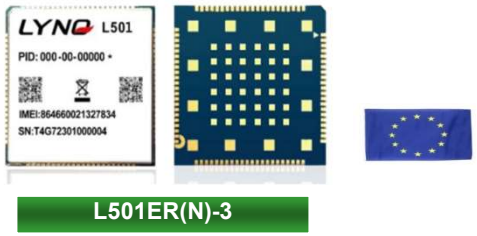
L503E-3S

ASR1603 chipset
22.9x21.9mm
LTE DL/UL10/5Mbps
Band B1/3/5/7/8/20/28/38/40/41
GSM Dual Band / Jamming Detection
Support Dual SIM
Pin2pin with Quectel CAT1 EC600N/S

P2P

L501E(N)-3

ASR 1603 chipset
30x30mm
LTE DL/UL10/5Mbps
Band B1/3/5/7/8/20/28/38/40/41
GSM Dual Band
GNSS optional
Jamming Detection
P2P with SIM7600



L501ER(N)-3

ASR 1603 chipset
30x30mm
LTE DL/UL10/5Mbps
Band B1/3/7/8/20/28/31/38/40/41
GSM Dual Band
GNSS optional
Jamming Detection
P2P with SIM7600

L501C(N)-3

ASR 1603 chipset
30x30mm
LTE DL/UL10/5Mbps
Band B1/3/5/8/34/38/39/40/41
GSM Dual Band
GNSS optional
P2P with SIM7600

L501G(N)-3

ASR 1603 chipset
30x30mm
LTE DL/UL10/5Mbps
Band B1/2/3/4/5/7/8/20/28/66/34/38/39/40/41
GSM Quad Band
GNSS optional
Jamming Detection
P2P with SIM7600

Mass Production | **Developing** | **Planning**

CAT1 only & SOC

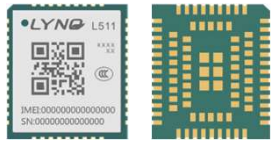
CAT1 only

L511C (N)

ASR1606 chipset
15.8x17.7mm
LTE DL/UL 10/5Mbps
Band B1/3/5/8/40/41
GNSS optional
Jamming Detection
Pin2pin with Quectel CAT1 EC800 and 2G M25/M26

L511E (N)

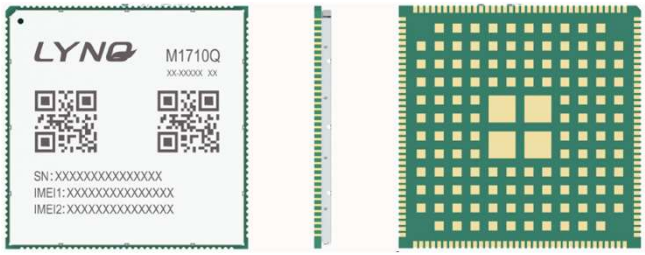
ASR1602 chipset
15.8x17.7mm
LTE DL/UL10/5Mbps
B1/3/7/8/20/28
GNSS optional
Jamming Detection
Pin2pin with Quectel CAT1 EC800 and 2G M25/M26



L511A (N)

Qualcomm 216 chipset
15.8x17.7mm
LTE DL/UL10/5Mbps
B2/4/5/12/13/14/66/71
Jamming Detection
Pin2pin with Quectel CAT1 EC800 and 2G M25/M26

SOC



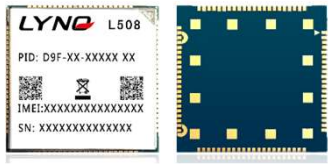
QCM2290 chipset
40.5x40.5mm
LTE DL/UL10/5Mbps
FDD-LTE：B1/B2/B3/B4/B5/B7/B8/B20/B28
• TDD-LTE：B38/B40/B41
• WCDMA：B1/B2/B4/B5/B8
• GSM：B2/B3/B5/B8
• WiFi：802.11a/b/g/n/ac;
• BT: Bluetooth 5.0
• GNSS:
GPS+Glonass+BDS+Galileo+QZSS+SBAS,
L1Display support: HD+, 720 × 1680 at 60 Hz

Mass Production **Developing** **Planning**

CAT4 based on ASR1803 chipset

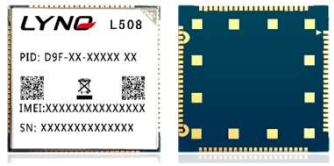
30x30mm

PCIE available



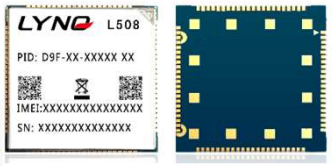
L508E(N)

30x30mm
LTE DL/UL150/50Mbps
Band B1/3/5/7/8/20/28/38/40/41
WCDMA B1/8
GSM Dual Band
GNSS optional
P2P with SIM7600



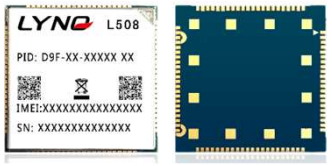
L508LEND

30x30mm
LTE DL/UL150/50Mbps
Band B1/3/5/7/8/20/28/38/40/41
WCDMA B1/8
GSM Dual Band
GNSS optoinal,
eCall ready
Linux, P2P with SIM7600



L508LAIN) LATAM

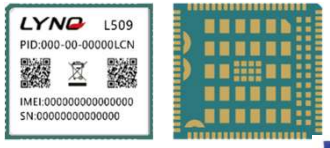
0x30mm
LTE DL/UL150/50Mbps
Band B1/2/3/4/5/7/8/28/66/40
WCDMA B1/2/4/5/8
GSM Quad Band
GNSS optional
P2P with SIM7600



L508C(N)

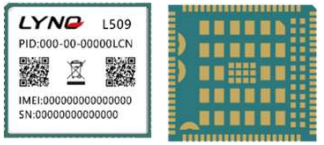
30x30mm
LTE DL/UL150/50Mbps
Band B1/3/5/8/34/38/39/40/41
WCDMA B1/5/8
GSM Dual Band
GNSS optional
P2P with SIM7600

29x32mm



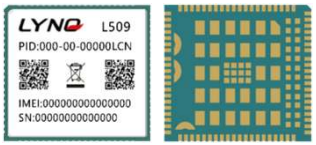
L509RE(N)

29x32mm
LTE DL/UL150/50Mbps
Band B1/3/5/7/8/20/28/38/40/41
WCDMA B1/8
GSM Dual Band
GNSS optional
P2P with EC20/21/25/200A



L509LE(N))

29x32mm
LTE DL/UL150/50Mbps
Band B1/3/5/7/8/20/28/38/40/41
WCDMA B1/8
GSM Dual Band
GNSS optoinal
Linux
eCall ready
P2P with EC20/21/25/200A



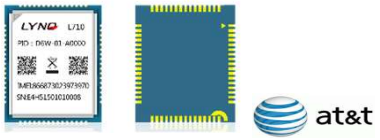
L509RC(N)

29x32mm
LTE DL/UL150/50Mbps
Band B1/3/5/8/34/38/39/40/41
WCDMA: B1/5/8
GSM Dual Band
GNSS optional
P2P with EC20/21/25/EC200A

Mass Production **Developing** **Planning**

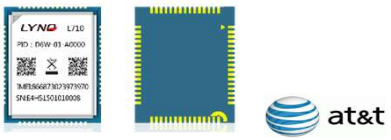
LPWA

eMTC



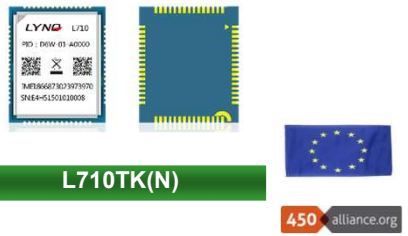
L710G(N)

21.5x25mm
Qualcomm 9205
CATM1/NB1/NB2/GPRS
Band: 1/2/3/4/5/8/12/13/18/19/20/26/28
GSM Quad band
GNSS optional



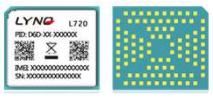
L710HG(N)

21.5x25mm
Qualcomm 9205
CATM1/NB1/NB2/GPRS
Band: 1/2/3/4/5/8/12/13/18/19/20/26/28
GSM Quad band
GNSS optional
RF Power Class 3



L710TK(N)

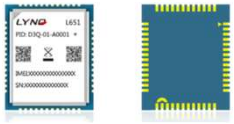
21.5x25mm
Qualcomm 9205
CATM1/NB1/NB2/GPRS
Band: 3/8/20/28/31/72
GSM Dual Band
GNSS optional



L720G

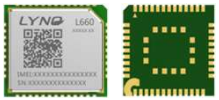
14.8x12.9mm
Qualcomm 9205
CATM1/NB1/NB2
Band: 1/2/3/4/5/8/12/13/18/19/20/
25/26/27/28/66
GNSS optional

NB-IoT



L651C/L651G

20x24mm
UNISOC 8909B
NB1/GPRS
Band 3/5/8/20/28
GSM Dual Band



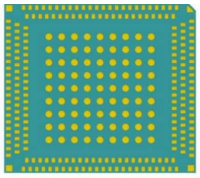
L660XE-2(E)

17.7x15.8mm
Eigencomm EC626
Band 1/3/5/8/20/28
BLE optional

Mass Production | Developing | Planning

Automotive grade 4G CAT4 IATF 16949

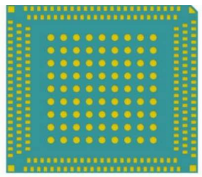
CAT4 Automotive



T106E

ZTE Microelectronics ZX297520V3V
37.5x33x3mm
-35℃ ~ +85℃（eCall ~ + 90℃）
AEC-Q 100
Dual Core Cortex A53 624MHz
Nand 4Gb+LPDDR2 2Gb

LTE CAT4 DL/UL150/50Mbps
LTE B1/3/5/7/8/20/28/38/40/41
HSPA B1/5/8
GSM Dual Band
GNSS: L1: GPS/ GLONASS/BeiDou/ Galileo/SBAS
ECALL, FOTA, OPEN LINUX
P2P with AG35

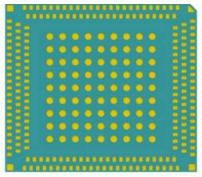


T106L

LATAM

ZTE Microelectronics ZX297520V3V
37.5x33x3mm
-35℃ ~ +85℃（eCall ~ + 90℃）
AEC-Q 100
Dual Core Cortex A53 624MHz
Nand 4Gb+LPDDR2 2Gb

LTE CAT4 DL/UL150/50Mbps
LTE B1/2/3/4/5/7/8/28/66/40
HSPA B1/2/3/4/5/8
GSM Quad Band
GNSS: L1: GPS/ GLONASS/BeiDou/ Galileo/SBAS
ECALL, FOTA, OPEN LINUX
P2P with AG35



T106G

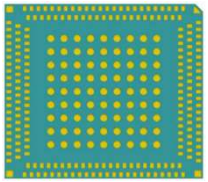
ZTE Microelectronics ZX297520V3V
37.5x33x3mm
-35℃ ~ +85℃（eCall ~ + 90℃）
AEC-Q 100
Dual Core Cortex A53 624MHz
Nand 4Gb+LPDDR2 2Gb

LTE CAT4 DL/UL150/50Mbps
LTE B1/2/3/4/5/7/8/20/28/66/38/40/41
HSPA B1/2/3/4/5/8
GSM Quad Band
GNSS: L1: GPS/ GLONASS/BeiDou/ Galileo/SBAS
ECALL, FOTA, OPEN LINUX
P2P with AG35

Mass Production **Developing** **Planning**

Automotive grade 4G CAT4 IATF 16949

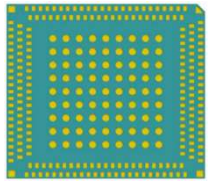
CAT4 Automotive WiFi



T108E

ASR1806
37.5x33x3mm
-35℃ ~ +85℃（eCall ~ + 90℃）
AEC-Q 100
Dual Core Cortex A53 624MHz
Nand 4Gb+LPDDR2 2Gb

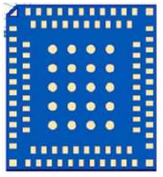
LTE CAT4 DL/UL150/50Mbps
LTE B1/3/5/7/8/20/28/38/40/41
UMTS/HSDPA/HSPA+: B1/B8
GSM/GPRS/EDGE: B3/B8
GNSS: L1: GPS/ GLONASS/BD/QZSS
ECALL, FOTA, OPEN LINUX
P2P with AG35



T108C

ASR1806
37.5x33x3mm
-35℃ ~ +85℃（eCall ~ + 90℃）
AEC-Q 100
CPU Core: ARM Cortex-A7,1.5GHz
Nand 4Gb+LPDDR2 2Gb

FDD-LTE： B1/B3/B5/B8
TDD-LTE： B34/B38/B39/B40/B41
UMTS/HSDPA/HSPA+: B1/B8
GSM/GPRS/EDGE: B3/B8
GNSS: L1: GPS/ GLONASS/BD/QZSS
ECALL, FOTA, OPEN LINUX
P2P with AG35



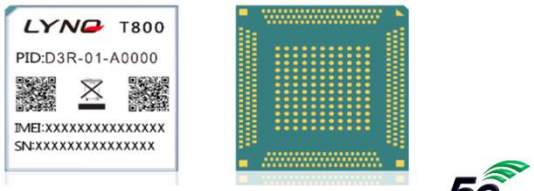
WG870

Automotive Grade Wi-Fi6 Module
21.5x19.5x2.7mm
Temperature range: -40°C ~ +85°C
Wi-Fi 2.4 GHz / 5 GHz
WLAN protocol: IEEE 802.11 a/b/g/n/ac/ax
modulation:BPSK/QPSK
16QAM/64QAM/256QAM/1024QAM
Match T106/T108 to use

Mass Production **Developing** **Planning**

Automotive grade 5G &V2X IATF 16949

5G Automotive/V2X

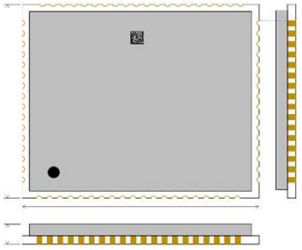


T800PLE

MTK 2735 chipset
45.2x45.2mm
-40℃ ~ +85℃（eCall ~ + 105℃）
Quad Core Cortex A55 1.5GHZ, 15k DMIPS

R15 5G SA DL/UL4.67Gbps/2.5Gbps
NSA DL/UL 2.34G/1.25Gbps
Band 5G NR n1/n3/n7/n8/n20/n28/n41/n77/n78
LTE B1/2/3/4/5/7/8/20/28/32/38/40/41/42
HSPA B1/3/5/6/8
GSM Quad Band
GNSS L1+L5
GPS/GLONASS/BeiDou/Galileo/QZSS
ECALL, FOTA, VOLTE, OPEN LINUX
Support External WIFI6 and V2X

Continental



LBWA1ZZ1YL

V2X/DSRC
Autotalks
muRata

33x27x3mm
Autotalks SECTON(ATK4055C; Cut3.0) and PLUTON2(ATK3200) inside
AEC-Q100 Grade 2

LTE-V2X standards-compliant 3Gpp R14
PC-5
Worldwide DSRC V2X standards-compliant
Receiver only, needs external CPU to drive ITS standards-compliant

Transmit and receive diversity
Embedded hardware secure module(eHSM)
Host Interface : C-V2X mode, DSRC mode
MSL : 3

WG710X

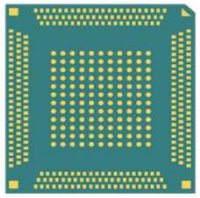
V2X VEHICLE-TO-EVERYTHING
MORNINGCORE 辰芯科技

37x42x4.2mm
Morningcore CX1860
V2X module with AP inside (Kernel：3.10.79)
Qual-core Cortex A7 Processor，Max 1.5GHz，
1MB L2 Cache，Linux，OPEN CPU Architecture，
Computing power 9K+DMIPS

LTE-V2X standards-compliant 3Gpp R14
PC-5
B47 (5.855~5.925GHz)
Flash：8GB EMMC+ 8Gb DDR3
IATF16949

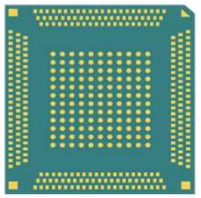
Mass Production **Developing** **Planning**

5G Sub 6 Industrial Grade



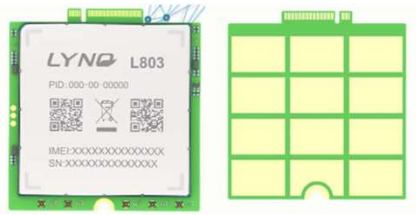
L803MLED

45.2x45.2x3.4mm
-40℃ ~ +85℃
Dual core ARM Cortex A55 1.5GHZ
5G NR：n1/n3/n7/n8/n20/n28/n41/n77/n78
LTE：B1/2/3/4/5/7/8/20/28/32/38/40/41/42
UMTS：B1/3/5/6/8
GSM：900/1800/850/1900 MHz
GNSS L1: GPS/GLONASS/BeiDou/Galileo/QZSS
FOTA, VOLTE, OPEN LINUX
Support External WIFI6



L803MLD

45.2x45.2x3.4mm
-40℃ ~ +85℃
Dual core ARM Cortex A55 1.5GHZ,
5G NR：n1/n3/n5/n8/n28/n41/n77/n78
LTE-FDD：B1/3/5/7/8/34/38/39/40/41
UMTS：B1/5/8
GSM：900/1800 MHz
GNSS L1： GPS/GLONASS/BeiDou/Galileo/QZSS
FOTA, VOLTE, OPEN LINUX
Support External WIFI6



L803MLED-M.2

52.5x50x4.2mm
-40℃ ~ +85℃
Dual-core ARM Cortex A55 1.5GHZ
5G NR：n1/n3/n7/n8/n20/n28/n41/n77/n78
LTE：B1/2/3/4/5/7/8/20/28/32/38/40/41/42
UMTS：B1/3/5/6/8
GSM：900/1800/850/1900 MHz
GNSS L1: GPS/GLONASS/BeiDou/Galileo/QZSS
FOTA, VOLTE,
Support SGMII port (Ethernet)

Mass Production | Developing | Planning

GNSS Modules Roadmap

MobileTek
Smart solution for a smarter world

	10*10 Single-Frequency	12*16 Single-Frequency	12*16 Single-Frequency Dead Reckoning Module	12*16 Dual-Frequency	12*16 Dual-Frequency Dead Reckoning Module	12*16 Dual-Frequency, High Precision	Single-Frequency, with Antenna	Dual-Frequency, with Antenna
MEDIATEK	**N10B** GPS+BD2/GLONASS 10.1*9.7*2.5 with LNA						**N31B** GPS(+BD2/GLONASS) 18.4*18.4*6.45 with LNA, Antenna ANTDET	
	N10F/ N10FL G3B 10.1*9.7*2.5 with LNA BD3	**N20B** GPS+BD2/GLONASS 16*12.2*2.5 with LNA		**N26(D)** G3B+IRNSS/L5 16*12.2*2.0 with LNA		**N27** High Precision，DR G3B+IRNSS/L5 16*12.2*2.0 with LNA	**N39B** GPS(+BD2/GLONASS) 18.5*18.5*6.15 with LNA, Antenna	**N32H** G3B+IRNSS 18*18*10.45 with LNA, Antenna
华大北斗 ALLYSTAR	**N10HD** GPS+BD2 10.1*9.7*2.5 with LNA BD3	**N20HD-1** GPS+BD2 16*12.2*2.5 with LNA ANTDET BD3	**N28** GPS+BD2 16*12.2*2.4 with LNA 6-axis sensor	**N23(D)** G3B+IRNSS/L5 16*12.2*2.5 with LNA	**N28D/DA** L1+L5 16*12.2*2.4 with LNA 6-axis sensor			**N32** GPS+IRNSS+GLONASS 18*18*10.8 with LNA, Antenna ANTDET
unicorecomm 和芯星通 北斗星通旗下企业						**N50** High Precision G3B/L5 16*12.2*2.4 with LNA		
中科微	**N10X** GPS+BD2/GLONASS 10.1*9.7*2.5 with LNA							

THANK YOU!

Fastest Growing Company & Factory of Wireless Module & Solutions

Designer and factory of wireless modules and solutions
4-6 weeks Lead Time

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