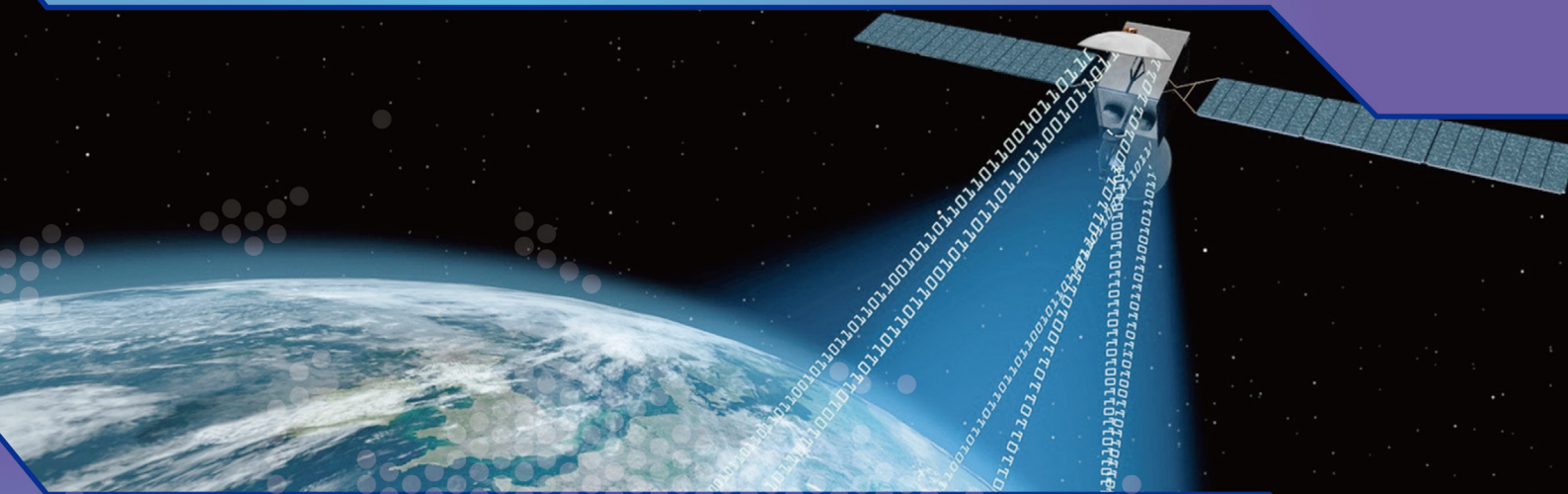


YIC



N:25° 03', 42.594"
E:121° 38', 45.588"



Professional Partner in GPS & Frequency Control



Frequency Control Products

- Quartz Crystal Units (XTAL)
- Crystal Oscillators(XO)
- VCXO
- TCXO / VCTCXO
- OCXO
- Ceramic Resonators
- Ceramic Filters
- Ceramic Discriminators
- SAW Resonators
- SAW Filters
- MCF



GNSS Modules & Receivers

- GPS / GNSS Modules
- GPS / GNSS Antenna Modules
- GPS / GNSS Receivers



RF Antennas

- GPS / GNSS
- MIMO Combo
- 5G
- 4G LTE
- 2.4G / 5.8GHz
- Wi-Fi 6/6E
- DAB
- ISM
- RFID
- Accessories



Quartz Crystal Units (XTAL)

MHz SMD				
Picture	Model	Dimension(mm)	Type	Frequency Range (MHz)
	XT104	1.2 x 1.0 x 0.35(H) , 4 Pad	Seam Seal , SMD1210	24 ~ 54
	XT114	1.6 x 1.2 x 0.4(H) , 4 Pad	Seam Seal , SMD1612	24 ~ 54
	XT214	2.0 x 1.6 x 0.45(H) , 4 Pad	Seam Seal , SMD2016	20 ~ 54
	XT224	2.5 x 2.0 x 0.5(H) , 4 Pad	Seam Seal , SMD2520	12 ~ 54
	XT324	3.2 x 2.5 x 0.7(H) , 4 Pad	Seam Seal , SMD3225	8 ~ 54
	XT324G	3.2 x 2.5 x 0.8(H) , 4 Pad	Glass Seal , SMD3225	12 ~ 50
	XT532	5.0 x 3.2 x 1.0(H) , 2 Pad	Seam Seal , SMD5032	8 ~ 125
	XT532G	5.0 x 3.2 x 1.4(H) , 2 Pad	Glass Seal , SMD5032	8 ~ 125
	XT534	5.0 x 3.2 x 1.0(H) , 4 Pad	Seam Seal , SMD5032	8 ~ 125
	XT632	6.0 x 3.5 x 1.2(H) , 2 Pad	Seam Seal , SMD6035	8 ~ 125
	XT634	6.0 x 3.5 x 1.2(H) , 4 Pad	Seam Seal , SMD6035	8 ~ 125
	XT754	7.0 x 5.0 x 1.4(H) , 4 Pad	Seam Seal , SMD7050	8 ~ 125
	49SMT / 49SLMT	11.4 x 3.8 x 4.2/3.2(H)	Metal Can , SMD	3 ~ 80

MHz Through-Hole				
Picture	Model	Dimension(mm)	Type	Frequency Range (MHz)
	49US / 49SL	11.5 x 4.6 x 3.5/2.5(H)	Metal Can	3 ~ 80
	49U	11.5 x 4.3 x 13.5(H)	Metal Can	1.8 ~ 200
	AT26 / AT38	Φ2 x 6 / Φ3 x 8	Cylinder	12 ~ 30

KHz SMD				
Picture	Model	Dimension(mm)	Type	Frequency Range (KHz)
	1610E	1.6 x 1.0 x 0.5(H)	Ceramic Base	32.768
	2012E	2.0 x 1.2 x 0.6(H)	Ceramic Base	32.768
	3215E	3.2 x 1.5 x 0.8(H)	Ceramic Base	32.768
	6914E	6.9 x 1.4 x 1.4(H)	Plastic Molding	32.768
	MC306	8.0 x 3.8 x 2.5(H)	Plastic Molding	32.768
	SM26B(SP)	Φ2 x 6 , Pitch=2.54(1.27)	Cylinder , SMD	30 ~ 200

KHz Through - Hole				
Picture	Model	Dimension(mm)	Type	Frequency Range (KHz)
	DT26 / DT38	Φ2 x 6 / Φ3 x 8	Cylinder	30 ~ 200



Crystal Oscillators (XO)

SPXO			
Picture	Model	Dimension(mm)	Frequency Range (MHz)
	OSC-S21 / O-S21	2.0 x 1.6 x 0.75(H)	1 ~ 200
	OSC-S21L		0.032768
	OSC-S22 / O-S22	2.5 x 2.0 x 0.95(H)	1 ~ 200, 0.032768
	OSC-S22L		0.032768
	OSC-S3 / O-S3	3.2 x 2.5 x 1.2(H)	1 ~ 250
	OSC-S5 / O-S5	5.0 x 3.2 x 1.3(H)	0.5 ~ 250, 0.032768
	OSC-S7 / O-S7	7.0 x 5.0 x 1.4(H)	0.5 ~ 250, 0.032768

LVDS			
Picture	Model	Dimension(mm)	Frequency Range (MHz)
	OSCLD-S22	2.5 x 2.0 x 1.0(H)	10 ~ 250
	OSCLD-S3 / OD-S3	3.2 x 2.5 x 1.2(H)	10 ~ 1500
	OSCLD-S5 / OD-S5	5.0 x 3.2 x 1.3(H)	10 ~ 1500
	OSCLD-S7 / OD-S7	7.0 x 5.0 x 1.4(H)	10 ~ 1500

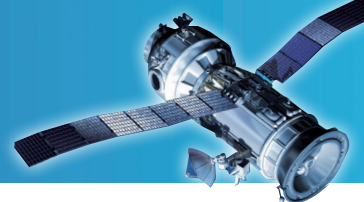
LVPECL			
Picture	Model	Dimension(mm)	Frequency Range (MHz)
	OSCLP-S22	2.5 x 2.0 x 1.0(H)	10 ~ 250
	OSCLP-S3 / OP-S3	3.2 x 2.5 x 1.2(H)	10 ~ 1500
	OSCLP-S5 / OP-S5	5.0 x 3.2 x 1.3(H)	10 ~ 1500
	OSCLP-S7 / OP-S7	7.0 x 5.0 x 1.4(H)	10 ~ 1500

VCXO , TCXO , OCXO

Picture	Model	Dimension (mm)/Package	Frequency Range (MHz)
	VCXO: VX / VP / VD	SMD : 7.0x5.0,5.0x3.2,3.2x2.5 TH : 20.3x12.8(Full), 12.8x12.8(Half)	1 ~ 1500
	TCXO: TX / VTX	SMD : 11.4x9.6,7x5.5x3.2,3.2x2.5,2.5x2.0,2.0x1.6 TH : 20x13,18x12,13x13,12x13	1 ~ 150
	OCXO: OX / VOX	SMD: 14.4x9.5,9.7x7.5 TH : 51x51,36x27,25x25,20x20,20x13	1 ~ 170

Monolithic Crystal Filters (MCF)

Picture	Model	Dimension (mm)/Package	Frequency Range (MHz)
	MCF-SM756	SMD : 7.0 x 5.0 x 1.3 (H)	21.4 ~ 45
	MCF	TH : 49U,49T,UM1,UM5,12x9.5,15x9,38x19,.....	8 ~ 75



Ceramic Resonators

SMD			
Picture	Model	Dimension(mm)	Frequency Range (MHz)
	ZTACW / ZTTCW	2.5 x 2.0 x 1.5 (H) (2 Pads / 3 Pads)	20 ~ 60
	ZTACE / ZTTCE	3.2 x 1.3 x 1.0 (H) (2 Pads / 3 Pads)	8.0 ~ 12
	ZTACV / ZTTCV	3.7 x 3.1 x 1.2 (H) (2 Pads / 3 Pads)	6.0 ~ 60
	ZTACR / ZTTCR	4.5 x 2.0 x 1.2 (H) (2 Pads / 3 Pads)	4.0 ~ 8.0
	ZTACS / ZTTCS	4.7 x 4.1 x 1.6 (H) (2 Pads / 3 Pads)	6.0 ~ 60
	ZTACC / ZTACP	7.4 x 3.4 x 1.8 / 6.0 x 3.0 x 1.7 (2 Pads)	1.8 ~ 60
	ZTTCC / ZTTCP	7.4 x 3.4 x 1.8 / 6.0 x 3.0 x 1.7 (3 Pads)	1.8 ~ 12

Ceramic Filters

SMD			
Picture	Model	Dimension(mm)	Frequency Range (MHz)
	LTCS10.7M	3.5 x 3.1 x 1.4(H)	10.7 or Customized
	LTCV10.7M	6.9 x 2.9 x 1.5(H)	10.7 or Customized
	LTUC450 / 455	7.5 x 6.0 x 3.0(H)	0.450 / 0.455
	LTWC450 / 455	7.5 x 11.5 x 3.0(H)	0.450 / 0.455

Through-Hole

Picture	Model	Dimension(mm)	Frequency Range (MHz)
	LT450 / 455	7.0 x 8.0 x 8.0(H)	0.450 / 0.455
	LTM450 / 455	6.5 x 6.5 x 6.2(H)	0.450 / 0.455

Ceramic Discriminators

Picture	Model	Dimension (mm)/Package	Frequency Range (MHz)
	SMD: CDBC450 / 455	6.5 x 6.0 x 2.8	0.450 / 0.455
	TH: CDBM450 / 455	6.0 x 6.0 x 3 (H)	0.450 / 0.455

SAW Resonators

Picture	Model	Dimension (mm)/Package	Frequency Range (MHz)
	SR	SMD : SM336,SM446,SM534,SM558 TH:TO-39,TO-39L,F-11,F-11L,....	100 ~ 2,800

SAW Filters

Picture	Model	Dimension (mm)/Package	Frequency Range (MHz)
	SF	SMD : SM115,SM214,SM224,SM336,SM446,SM534,SM558 TH : TO-39,TO-39L,F-11,F-11L,....	100 ~ 2,700







GNSS Modules



MediaTek / Airoha Chip Solution

YIC5 Series


GPS/GNSS Modules

Picture	Model	Dimension(mm)	VCC(V)	Flash (Programmable)	Additional LNA/SAW	PPS	Interface	Connect to host
	YIC51009EBGG-33	10.1 x 9.7 x 2.2(H)	3.3	●	V	V	UART	SMD
	YIC51513EBGG-33	15 x 13 x 2.5(H)	3.3	●	V	V	UART	SMD
	YIC51612EBGG-33	16 x 12 x 2.5(H)	3.3	●	V	V	UART	SMD
	YIC51612EBGGB	16 x 12 x 2.5(H)	3.3	●	V	V	UART	SMD

Sub-1meter L1+L5 GNSS Modules

Picture	Model	Dimension(mm)	VCC(V)	Flash (Programmable)	Additional LNA/SAW	PPS	Interface	Connect to host
	YIC51009EBGGBL5	10.1 x 9.7 x 2.2(H)	3.3	V	V	V	UART	SMD
	YIC51612EBGGBL5	16 x 12 x 2.5(H)	3.3	V	V	V	UART	SMD






Dead Reckoning (DR) GNSS Modules

Picture	Model	Dimension(mm)	VCC(V)	Flash (Programmable)	Additional LNA/SAW	PPS	Interface	Connect to host
	YIC51612EBGGBL5-DR	16 x 12 x 2.5(H)	3.3	V	V	V	UART	SMD

NavIC (IRNSS) GNSS Modules

Picture	Model	Dimension(mm)	VCC(V)	Flash (Programmable)	Additional LNA/SAW	PPS	Interface	Connect to host
	YIC51612EBGGBI	16 x 12 x 2.5(H)	3.3	V	V	V	UART	SMD



GPS/GNSS Antenna Modules

Picture	Model	Dimension(mm)	VCC(V)	Flash (Programmable)	Additional LNA/SAW	PPS	Interface	Connect to host
	YIC51513PGMGG-33	15 x 13 x 6.8(H)	3.3	●	V	V	UART/GPIO	Cable Soldering
	YIC51616GMSGG-33	16 x 16 x 6.9(H)	3.3	●	V	V	UART	SMD
	YIC51818GMGG-33	18 x 18 x 6.8(H)	3.3	●	V	—	UART	Cable Connector
	YIC52525GMGG-33	25 x 25 x 8.8(H)	3.3/5.0	●	V	—	UART	Cable Connector
	YIC53030GMGG-33	30.2 x 30.2 x 8.4(H)	3.3/5.0	●	V	V	UART/RS232/USB	Cable Connector

Goke Chip Solution

YIC3 Series

GPS/GNSS Modules




Picture	Model	Dimension(mm)	VCC(V)	Flash (Programmable)	Additional LNA/SAW	PPS	Interface	Connect to host
	YIC31009EBGG	10.1 x 9.7 x 2.2(H)	3.3	●	V	V	UART	SMD
	YIC31612EBGG	16 x 12 x 2.5(H)	3.3	●	V	V	UART	SMD



Goke Chip Solution

YIC3 Series



GPS/GNSS Antenna Modules

Picture	Model	Dimension(mm)	VCC(V)	Flash (Programmable)	Additional LNA/SAW	PPS	Interface	Connect to host
	YIC31513PGMGG	15 x 13 x 6.8(H)	3.3	•	V	V	UART	Cable Soldering
	YIC31616GMSGG	16 x 16 x 6.9(H)	3.3	•	V	V	UART	SMD
	YIC31818GMGG	18 x 18 x 6.8(H)	3.3	•	V	-	UART	Cable Connector



u-blox Chip Solution

YIC9 Series

GPS/GNSS Modules

Picture	Model	Dimension(mm)	VCC(V)	Flash (Programmable)	Additional LNA/SAW	PPS	Interface	Connect to host
	YIC91009EBGG	10.1 x 9.7 x 2.2(H)	3.3	—	—	V	UART/DDC	SMD
	YIC91612EBFGG	16 x 12 x 2.5(H)	3.3	V	V	V	UART/DDC/USB	SMD



GPS/GNSS Antenna Modules

Picture	Model	Dimension(mm)	VCC(V)	Flash (Programmable)	Additional LNA/SAW	PPS	Interface	Connect to host
	YIC91818GMGG	18 x 18 x 7.1(H)	3.3/5	—	V	—	UART	Cable Soldering
	YIC93030PGMFGG	30 x 30 x 8.4(H)	3.3/5	V	V	V	UART/RS232/USB	Cable Soldering



GNSS Receivers (G-Mouse)

GT GR GU Series



UART/TTL Interface : GT Series

Picture	Model	Dimension(mm)	IP Rating	VCC(V)	Chips	Additional LNA/SAW	PPS	Mount
	GT-302	45 x 38 x 14.3(H)	IPX5	3.3/5.5	Goke	V	•	Adhesive & Magnetic
	GT-502				MediaTek	V	•	
	GT-902				u-blox	V	•	
	GT-502GG-V38				MediaTek	V	•	
	GT-504	36 x 36 x 13.5(H)	IP67	3.3/5.5	MediaTek	V	•	Adhesive

RS232 Interface : GR Series

Picture	Model	Dimension(mm)	IP Rating	VCC(V)	Chips	Additional LNA/SAW	PPS	Mount
	GR-302	45 x 38 x 14.3(H)	IPX5	3.3/5.5	Goke	V	•	Adhesive & Magnetic
	GR-502				MediaTek	V	•	
	GR-902				u-blox	V	•	
	GR-502GG-V38				MediaTek	V	•	
	GR-504	36 x 36 x 13.5(H)	IP67	3.3/5.5	MediaTek	V	•	Adhesive

USB Interface : GU Series

Picture	Model	Dimension(mm)	IP Rating	VCC(V)	Chips	Additional LNA/SAW	PPS	Mount
	GU-302	45 x 38 x 14.3(H)	IPX5	3.3/5.5	Goke	V	•	Adhesive & Magnetic
	GU-502				MediaTek	V	•	
	GU-902				u-blox	V	•	
	GU-504	36 x 36 x 13.5(H)	IP67	3.3/5.5	MediaTek	V	•	Adhesive



GPS/GNSS & MIMO Combo

ATG ATIG ATPG Series

External Antennas : ATG Series

Picture	Model	Dimension(mm)	Frequency	Mount
	ATGGBL5	40.5 x 38 x 16.3(H)	GPS L1 + L5 + GLONASS + GALILEO + BEIDOU	Magnetic
	ATGGBL2	40.5 x 38 x 16.3(H)	GPS L1 + L2 + GLONASS + GALILEO + BEIDOU	Magnetic
	ATGGBL2L5	40.5 x 38 x 16.3(H)	GPS L1 + L2 + L5 + GLONASS + GALILEO + BEIDOU	Magnetic
	ATGG4336	43 x 36.4 x 13.5(H)	GPS + GLONASS	Adhesive & Magnetic
	ATGGB4336		GPS + GLONASS + BEIDOU	
	ATGG46015	46 x 15(H)	GPS + GLONASS	Permanent
	ATGGB2759-BP	Φ27.5 x 59(H)	GPS + GLONASS + BEIDOU	Permanent
	ATGGLTE80014M-CD	Φ80 x 14(H)	GPS + GLONASS + 4G/LTE	Magnetic
	ATGGLTEW80014M-CD	Φ80 x 14(H)	GPS + GLONASS + 4G/LTE + WiFi	Magnetic
	ATGGLTEW84018-2.0BP	Φ84 x 18(H)	GPS+ GLONASS + 4G/LTE + WiFi	Permanent

Internal Antennas : ATIG Series

Picture	Model	Dimension (mm) of Patch Antenna	Frequency	
	ATIGGBL2	25x25x4(H) + 15x15x4(H)	GPS L1 + L2 + GLONASS + GALILEO + BEIDOU	
	ATIGGBL5		GPS L1 + L5 + GLONASS + GALILEO + BEIDOU	
	ATIGGBL2L5		GPS L1 + L2 + L5 + GLONASS + GALILEO + BEIDOU	
	ATIGG2540	25 x 25 x 4(H)	GPS + GLONASS	
	ATIGG1840	18 x 18 x 4(H)		
	ATIGG1540-1	15 x 15 x 4(H)		
	ATIGG1040-1	10 x 10 x 4(H)		
	ATIGGB2540	25 x 25 x 4(H)		GPS + GLONASS + BEIDOU

Patch Antennas : ATPG Series

Picture	Model	Dimension (mm) of Patch Antenna	Frequency	
	ATPGGBL2	25x25x4(H) + 18x18x4(H)	GPS L1 + L2 + GLONASS + GALILEO + BEIDOU	
	ATPGGBL5		GPS L1 + L5 + GLONASS + GALILEO + BEIDOU	
	ATPG1590R2540A	25 x 25 x 4(H)	GPS + GLONASS	
	ATPG1590R1840A	18 x 18 x 4(H)		
	ATPG1590R1540A	15 x 15 x 4(H)		
	ATPG1590R1040A	10 x 10 x 4(H)		
	ATPGGBR2540A	25 x 25 x 4(H)		GPS + GLONASS + BEIDOU
	ATPG1568R2540	25 x 25 x 4(H)		GPS + BEIDOU





5G/4G LTE/WIFI/DAB/ISM/RFID/LoRa....


AT ATI ATIF Series

External Antennas : AT Series





5G Sub 6GHz :

Picture	Model	Frequency (MHz)	Mount
	AT5G	704 ~ 960 / 1710 ~ 2700 / 3300 ~ 5000 / 5150 ~ 5850 / 6000	Terminal Connector (Rubber Duck Antenna)
		704 ~ 960 / 1710 ~ 2700 / 3300 ~ 3800	Screw

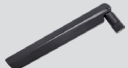
4G/LTE :

Picture	Model	Frequency (MHz)	Mount
	ATLTE	698 ~ 960 / 1710 ~ 2700	Adhesive , Magnetic , Terminal , Permanent

WiFi 2.4G/5.8GHz :

Picture	Model	Frequency (MHz)	Mount
	AT2.4G	2,400 ~ 2,500	Adhesive , Magnetic , Terminal , Permanent
	AT5.8G	5,150 ~ 5,850	Adhesive , Magnetic , Terminal , Permanent
	AT2458G	2,400 ~ 2,500 / 5,150 ~ 5,850	Adhesive , Magnetic , Terminal , Permanent
			Screw


WiFi 6/6E :

	ATW6	2,400 ~ 2,500 / 5,150 ~ 5,850 / 5925 ~ 7125	Terminal Connector (Rubber Duck Antenna)
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PCB Internal Antennas : ATI Series

Picture	Model	Dimension (mm)	Frequency
	ATI	Standard or Customized	AT15G ATILTE ATIW6 AT12458G AT15.8G AT12.4G,.....

Flexible PCB Internal Antennas : ATIF Series

Picture	Model	Dimension (mm)	Frequency
	ATIF	Standard or Customized	ATIF5G ATIFLTE ATIFW6 ATIF2458G ATIF5.8G ATIF2.4G,.....

RF Cable Assemblies

Picture	Cable	Connector
	Micro Coaxial - 0.81mm,1.13mm,1.32mm,1.37mm,1.64mm Standard Coaxial - RG174,RG178,RG316,RG58,.....	IPEX(U FL),SMA,MCX,MMCX,FAKRA,TNC,BNC,...

YIC



Since 1994

ISO9001:2008 ISO14001:2004

裕中企業股份有限公司 Yuechung International Corp. (YIC)

H/Q: 台灣省新北市汐止區新台五路一段79號20樓之4(遠東世界中心C棟)

20F-4, No.79, Sec.1, Hsin Tai Wu Rd., Hsi-Chih, New Taipei City, Taiwan

TEL: 886-2-2698-2191(REP.) FAX: 886-2-2698-2192/ 2698-2193

E-MAIL: service@yic.com.tw URL: www.yic.com.tw

裕筌電子(深圳)有限公司 Yuechung Electronics (Shenzhen) Co., Ltd.

China Office: 深圳市福田保稅區紅花路99號長平商務大廈1221室

TEL: 86-755-8204-4536 (REP.) FAX: 86-755-8204-4415

E-MAIL: service_sz@yic.com.tw

