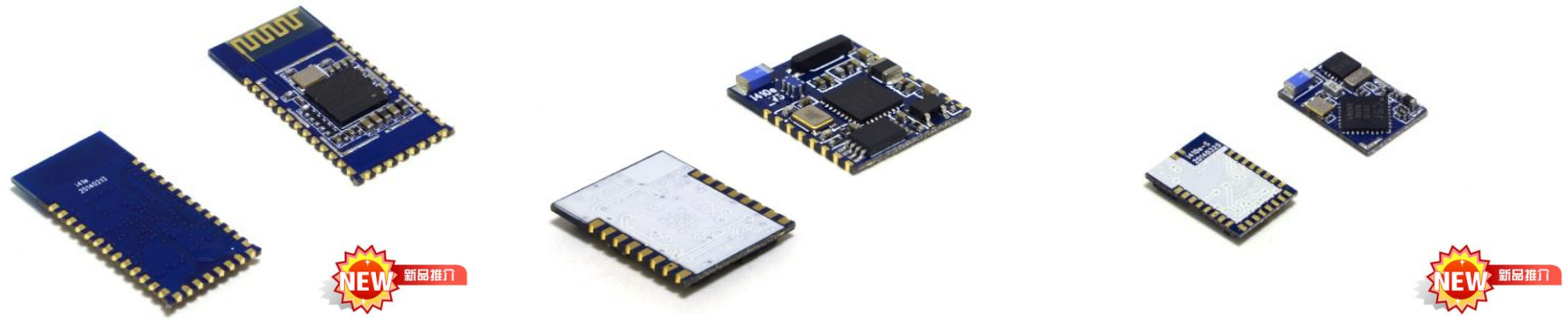


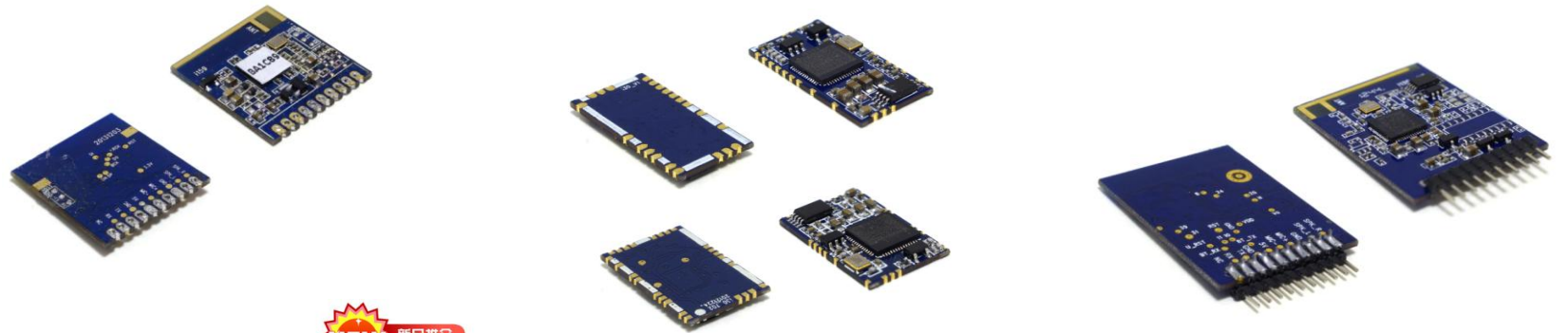
Features	i40e	i40el		i40e-A
Bluetooth Specification	2.1+EDR	2.1+EDR		2.1+EDR
Bluetooth class	2	1		2
Range, line of sight	10m	100m	10m	10m
Antenna	Internal	External	Internal	Internal
Temperature range	-40 ⁰ C to +85 ⁰ C	-40 ⁰ C to +85 ⁰ C		-40 ⁰ C to +85 ⁰ C
Maximum Throughput	2, 3Mbps	2, 3Mbps		2, 3Mbps
Integration	Surface mount	Surface mount		Surface mount
Host Interfaces	UART, USB, 9×GPIO,2×AIO	UART, USB, 9×GPIO,2×AIO		UART, USB, 9×GPIO,2×AIO
Audio interfaces	PCM	PCM		PCM
Operating voltage	3.0V~3.6V	3.0V~3.6V		3.0V~3.6V
AFH supported	Yes	Yes		Yes
802.11 co-existence	Yes	Yes		Yes
Memory	48KB RAM, 8MB Flash	48KB RAM, 8MB Flash		48KB RAM, 8MB Flash
Chip	BlueCore04	BlueCore04		BlueCore04
Certifications	BQB, KCC, TELEC, FCC, IC	BQB, KCC, TELEC, FCC, IC		BQB, KCC, TELEC, FCC, IC
Ability to host applications	Yes	Yes		Yes
Firmware options	System-on-Module, Custom	System-on-Module, Custom		System-on-Module, Custom
Size	27×13×2.2 mm	27×13×2.2 mm		26×14×2 mm
Shielding case	No	No		Yes
Profiles	SPP, HFP, HSP, PBAP, OPP, HID	SPP, HFP, HSP, PBAP, OPP, HID		SPP, HFP, HSP, PBAP, OPP, HID
Applications	<ul style="list-style-type: none"> ● Cable replacement ● Point-Of-Sales systems ● Barcode readers ● Payment terminals ● Telemetry devices ● Automotive inspection systems ● Smart home devices ● Smartphone accessories 	<ul style="list-style-type: none"> ● Cable replacement ● Point-of-sales systems ● Barcode readers ● Pay terminals ● Telemetry devices ● Automotive inspection systems ● Industrial devices ● Smart home devices ● Smartphone accessories 		<ul style="list-style-type: none"> ● Cable replacement ● Point-Of-Sales systems ● Barcode readers ● Payment terminals ● Telemetry devices ● Automotive inspection systems ● Smart home devices ● Smartphone accessories



Features	i41e	i410e	i410e-S
Bluetooth Specification	2.1+EDR	4.0, single-mode	4.0, single-mode
Bluetooth class	2	2	2
Range, line of sight	10m	20~30m	20~30m
Antenna	Internal	Internal	Internal
Temperature range	-20 ⁰ C to +70 ⁰ C	-40 ⁰ C to +85 ⁰ C	-40 ⁰ C to +85 ⁰ C
Maximum Throughput	2, 3Mbps	1Mbps	1Mbps
Integration	Surface mount	Surface Mount	Surface Mount
Host Interfaces	UART, GPIO, AIO	UART, AIO, PIO, SPI	UART, AIO, PIO, SPI
Audio interfaces	Analog, I2S	NONE	NONE
Operating voltage	3.0V~3.6V	1.8~3.3V	1.8~3.3V
AFH supported	Yes	Yes	Yes
802.11 co-existence	Yes	NONE	NONE
Memory	--	64K RAM 512K Flash	64K RAM 512K Flash
Chip	i8009	CSR1010	CSR1012
Certifications	BQB	BQB, CE, FCC, IC	BQB, CE, FCC, IC
Ability to host applications	Yes	Yes	Yes
Firmware options	System-on-Module, Custom	System-on-Module, Customi	System-on-Module, Custom
Size	26.9 x 13 x 1.8 mm	16.6×13.8×2.5mm	13x9x2mm
Shielding case	No	No	Yes
Profiles	SPP, HFP, HSP, PBAP, OPP, HID	GATT, FMP, HRP, HSP, CSCP, CSCS, BLP, BLS, HTP, HTS, GLP, GLS, HID	GATT, FMP, HRP, HSP, CSCP, CSCS, BLP, BLS, HTP, HTS, GLP, GLS, HID
Applications	<ul style="list-style-type: none"> ● Cable replacement ● Point-Of-Sales systems ● Barcode readers ● Payment terminals ● Telemetry devices ● Automotive inspection systems ● Smart home devices ● Smartphone accessories 	<ul style="list-style-type: none"> ● HID devices and remote control device ● Telemetry and machine-to-machine devices ● e-Payment terminal ● Printer & micro-printer ● Smartphone accessories 	<ul style="list-style-type: none"> ● Health monitoring devices ● Fitness and sports devices ● Wearable devices ● Smartphone accessories



Features	i50e	i50e-A	i42e
Bluetooth Specification	3.0+EDR	3.0+EDR	3.0+EDR
Bluetooth class	2	2	2
Range, line of sight	10m	10m	10m
Antenna	NO	NO	No
Temperature range	-40 ⁰ C to +85 ⁰ C	-40 ⁰ C to +85 ⁰ C	-20 ⁰ C to +70 ⁰ C
Maximum Throughput	2, 3Mbps	2, 3Mbps	2, 3Mbps
Integration	Surface mount	Surface mount	Surface mount
Host Interfaces	UART, USB, 13×GPIO,2×AIO	UART, USB, 13×GPIO,2×AIO	UART, USB, 1xAIO, PIO
Audio interfaces	Analog, PCM, SPDIF, I2S	Analog, PCM, SPDIF, I2S	Analog,I2S
Operating voltage	3.0V~3.6V	3.0V~3.6V	3.2V~4.2V
AFH supported	Yes	Yes	Yes
802.11 co-existence	Yes	Yes	No
Memory	48KB RAM, 16MB Flash	48KB RAM, 16MB Flash	--
Chip	BlueCore05 Multimedia	BlueCore05 Multimedia	i8009
Certifications	BQB, CE, FCC, IC	BQB, CE, FCC, IC	BQB
Ability to host applications	Yes	Yes	Yes
Firmware options	System-on-Module, Custom	System-on-Module, Custom	System-on-Module, Custom
Size	21×13.5×2.5mm	21×13.5×2.5mm	13×13×2.2mm
Shielding case	No	Yes	Yes
Profiles	HFP, HSP, A2DP, AVRCP, SPP, PBAP, MAP, OPP, PIM Sync, HID keyboard/mouse	HFP, HSP, A2DP, AVRCP, SPP, PBAP, MAP, OPP, PIM Sync, HID keyboard/mouse	HFP, HSP, A2DP, AVRCP, SPP, PBAP, HID keyboard/mouse
Applications	<ul style="list-style-type: none"> ● Automotive Before-Market ● Hands-free car kits ● Wireless intercom 	<ul style="list-style-type: none"> ● Automotive Before-Market ● Hands-free car kits ● Wireless intercom 	<ul style="list-style-type: none"> ● Automotive After-Market



Features	i159	i30-732/i30-702	i130
Bluetooth Specification	3.0+EDR	3.0+EDR	3.0+EDR
Bluetooth class	2	2	2
Range, line of sight	10m	10m	10m
Antenna	Internal	NO	Internal
Temperature range	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C
Maximum Throughput	2, 3Mbps	2, 3Mbps	2, 3Mbps
Integration	Surface mount	Surface mount	Surface mount
Host Interfaces	UART	UART	UART, 1×GPIO
Audio interfaces	Analog	Analog	Analog
Operating voltage	5V	5V	5V
AFH supported	Yes	Yes	Yes
802.11 co-existence	Yes	Yes	Yes
Memory	ROM	ROM	ROM
Chip	i8009	i8008	i8008
Certifications	BQB	BQB	BQB
Ability to host applications	Yes	Yes	Yes
Firmware options	System-on-Module, Custom	HCI	HCI, Custom
Size	26.2×23×2.5mm	23.2×11.9×2.2mm 19.9×12.7×2.2mm	35.5×25.5×5mm
Shielding case	No	No	No
Profiles	SPP, HFP, HSP, PBAP, PIM Sync, FTP, OPP, MAP, A2DP, AVRCP, HID, DUN, PAN, Fax	SPP, HFP, HSP, PBAP, PIM Sync, FTP, OPP, MAP, A2DP, AVRCP, HID, DUN, PAN, Fax	SPP, HFP, HSP, PBAP, PIM Sync, FTP, OPP, MAP, A2DP, AVRCP, HID, DUN, PAN, Fax
Applications	<ul style="list-style-type: none"> ● Automotive After-market ● In-Vehicle Infotainment ● Telematics 	<ul style="list-style-type: none"> ● Automotive After-market ● In-Vehicle Infotainment ● Telematics 	<ul style="list-style-type: none"> ● Automotive After-market ● In-Vehicle Infotainment ● Telematics



Features	i183	i140	i480e
Bluetooth Specification	3.0+EDR	3.0+EDR	4.0+EDR, Dual Mode
Bluetooth class	2	2	2
Range, line of sight	10m	10m	10m
Antenna	Internal	Internal	NO
Temperature range	-20 ⁰ C to +70 ⁰ C	-20 ⁰ C to +70 ⁰ C	-40 ⁰ C to +85 ⁰ C
Maximum Throughput	2, 3Mbps	2, 3Mbps	2,3Mbps
Integration	Surface mount	Surface mount	Surface Mount
Host Interfaces	UART, 1xGPIO	UART	UART, USB, PCM, AIO, PIO, LED
Audio interfaces	Analog	Analog	Analog
Operating voltage	5V	5V	1.8~3.3V
AFH supported	Yes	Yes	Yes
802.11 co-existence	Yes	Yes	NONE
Memory	ROM	ROM	64K RAM
Chip	i8006	i8008	CSR8670
Certifications	BQB	BQB	BQB
Ability to host applications	Yes	Yes	Yes
Firmware options	HCI, Custom	HCI, Custom	System-on-Module, Custom
Size	35.5×25.4×5mm	27.5×22.9×2.5mm	21.3 *13.7* 2.5(mm)
Shielding case	No	No	No
Profiles	SPP, HFP, HSP, PBAP, PIM Sync, FTP, OPP, MAP, A2DP, AVRCP, HID, DUN, PAN, Fax	SPP, HFP, HSP, PBAP, PIM Sync, FTP, OPP, MAP, A2DP, AVRCP, HID, DUN, PAN, Fax	SPP, HFP, HSP, PBAP, MAP, OPP, A2DP, AVRCP, PIM Sync GATT, FMP, HRP, HSP, CSCP, CSCS, BLP, BLS, HTP, HTS, GLP, GLS, HID
Applications	<ul style="list-style-type: none"> ● Automotive After-market ● In-Vehicle Infotainment ● Telematics 	<ul style="list-style-type: none"> ● Automotive After-market ● In-Vehicle Infotainment ● Telematics 	<ul style="list-style-type: none"> ● Car-audio system ● Sound bar ● Audio devices



Features	i481	i482	i482e
Bluetooth Specification	4.0+EDR, Dual Mode	4.0+EDR, Dual Mode	4.0+EDR, Dual Mode
Bluetooth class	2	2	2
Range, line of sight	10m	10m	50m
Antenna	NO	No	Internal
Temperature range	-40 ⁰ C to +85 ⁰ C	-40 ⁰ C to +85 ⁰ C	-40 ⁰ C to +85 ⁰ C
Maximum Throughput	2, 3Mbps	2, 3Mbps	2, 3Mbps
Integration	Surface mount	Surface mount	Surface mount
Host Interfaces	UART, USB, GPIO	UART, GPIO	UART, GPIO
Audio interfaces	PCM, I2S	PCM, I2S	None
Operating voltage	3.0V~3.6V	3.0V~3.6V	3.0V~3.6V
AFH supported	Yes	Yes	Yes
802.11 co-existence	Yes	Yes	Yes
Memory	ROM	ROM	Flash
Chip	CSR 8311	CSR 8811	CSR 8811
Certifications	BQB	BQB	BQB
Ability to host applications	Yes	Yes	Yes
Firmware options	HCI, Custom	HCI, Custom	System-on-Module, Custom
Size	13×13×2 mm	13×13×2 mm	27*13*2.2 mm
Shielding case	No	No	Yes
Profiles	SPP, HFP, HSP, PBAP, FTP, OPP, MAP, A2DP, AVRCP, HID, DUN, PAN, Fax GATT, FMP, HRP, HSP, CSCP, CSCS, BLP, BLS, HTP, HTS, GLP, GLS, HID	SPP, HFP, HSP, PBAP, FTP, OPP, MAP, A2DP, AVRCP, HID, DUN, PAN, Fax GATT, FMP, HRP, HSP, CSCP, CSCS, BLP, BLS, HTP, HTS, GLP, GLS, HID	SPP, HFP, HSP, PBAP, FTP, OPP, MAP, A2DP, AVRCP, HID, DUN, PAN, Fax GATT, FMP, HRP, HSP, CSCP, CSCS, BLP, BLS, HTP, HTS, GLP, GLS, HID
Applications	<ul style="list-style-type: none"> ● PC ● Tablet ● PND ● PMP ● Other Bluetooth devices which run Windows/Windows CE/Linux/Android and other embedded systems. 	<ul style="list-style-type: none"> ● PC ● Tablet ● PND ● PMP ● Other Bluetooth devices which run Windows/Windows CE/Linux/Android and other embedded systems. 	<ul style="list-style-type: none"> ● Cable replacement ● HID devices and remote control device ● Telemetry and machine-to-machine devices ● Pay terminals ● Health monitoring devices ● Smartphone accessories