

Panasonic

CONNECTOR SELECTION GUIDE 2018

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Guide for Navigating Website

Main Web Page of Automation Controls

You can check discontinued products.

You can access the FAQ 24 hours a day. You can also send inquiries by e-mail.

Download Center

At the download center you can download information about products such as product catalogs and CAD data.

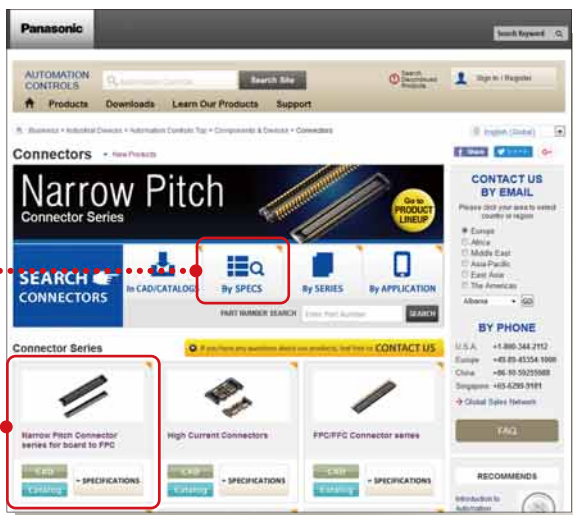
* Some products are not listed.



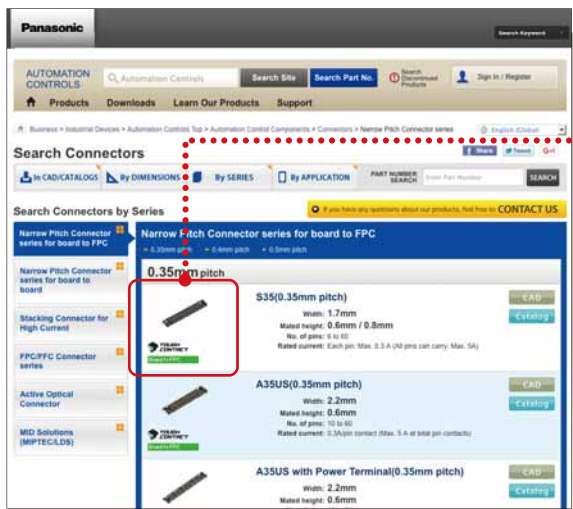
Product pages

Individual product front pages and an application-based search function are provided for each product category.

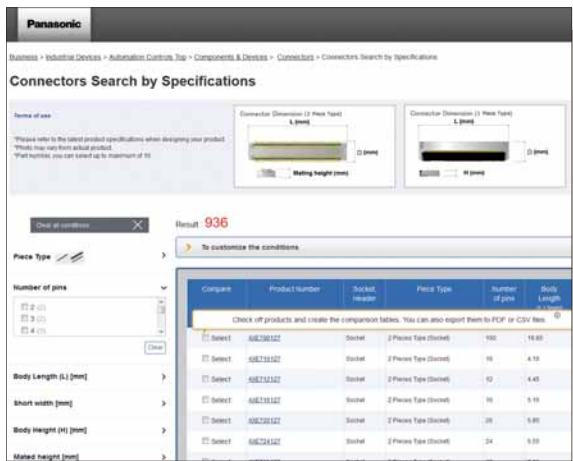
Front page of connectors



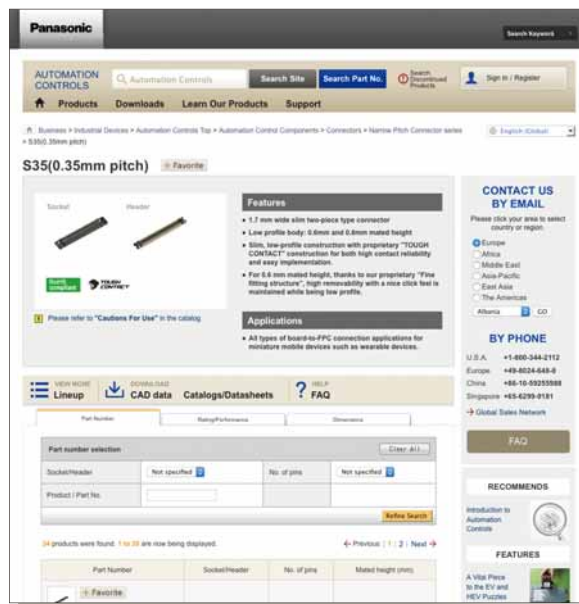
Product list



Specifications



Product page

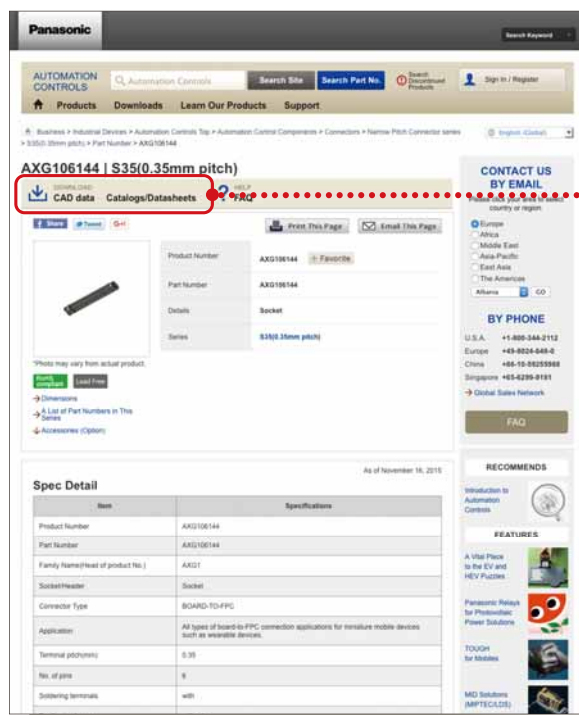


PDF catalogs and CAD data can be downloaded*.

Correspondence data: 2D (DXF) 3D (IGES, Palasolid, STEP, PDF)

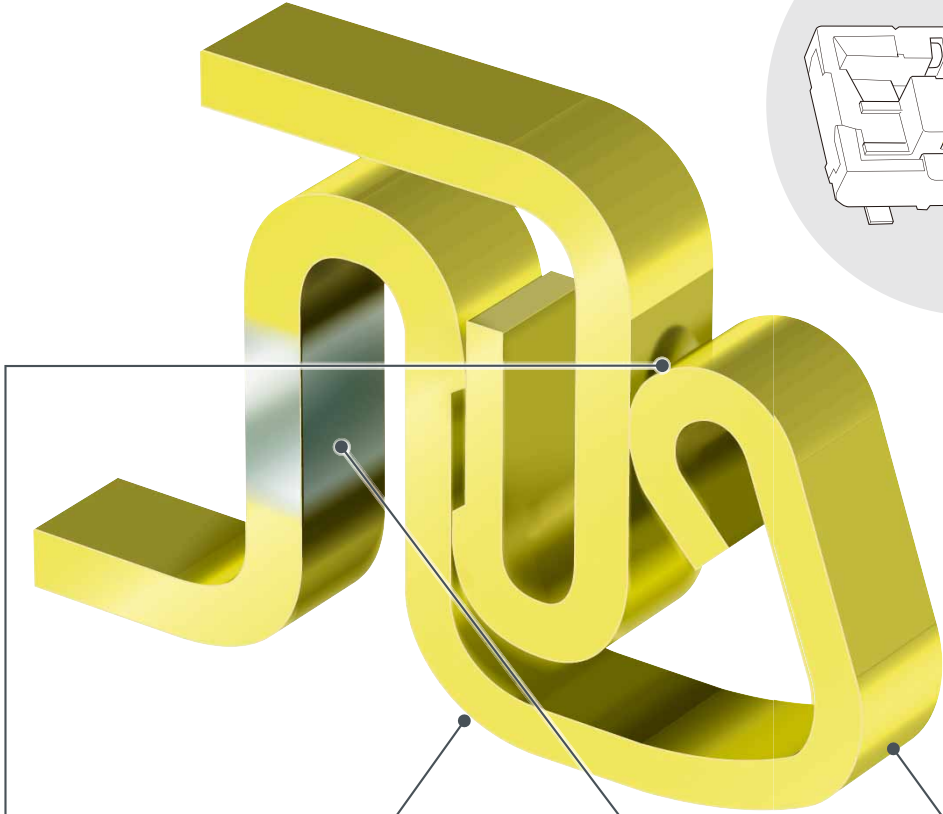
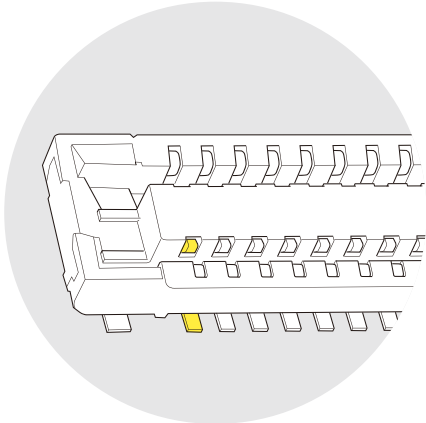
*Registration is required to download CAD data.

Specifications are displayed by part number in an easy-to-read form. (You can choose a product even if you only know its part number.)



High reliability contact that can stand up to various environmental conditions

Our unique technology For Board-to-board/Board-to-FPC
Narrow pitch connector series/High current connector series



Contact image of A4S

Tough
against exposure to
foreign particles and
solder flux!

Tough
against
shock impact!

Tough
against
solder rise!

Tough
against
corrosive gases!



Tough against exposure to foreign particles and solder flux! V notch contact construction

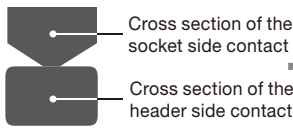
The amount of contact pressure (per unit area) was dramatically increased by taking into consideration the contact edge design. This further improves the overall ability to resist foreign particles from entering inside the contact area.



Evaluation example of plastic powder adhered on post contact surface

Improved with 2-point contacting and edge contact

Product without notch



V notched product



More effective in eliminating flux and foreign particles, and also more effective in keeping foreign particles from getting inside

Improved contact movement effect before and after V notch passage

Improved with use of double contact



Same effect as V notch attained by double contact.

A4S Contact construction view

<The combination of these effects greatly improves contact reliability (resistance to entry of foreign matter)>

*Japan: Registration of patent (Patent No. 3726836) Korea: Registration of patent (Patent No. 531938) Taiwan: Registration of patent (Patent No. 1225323) China: Registration of patent (Patent No. 1314171) North America: Registration of patent (Patent No. 7278861)

Tough against shock impact! Bellows contact construction

The high precision design curved molding provides the right amount of spring action from the contacts which is made possible by means of high precision-metal-processing, one of Panasonic's core technologies. This spring-like feature is key in many mobile devices.



Simulation Analysis

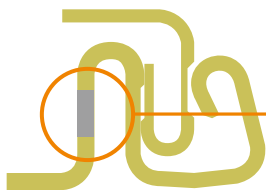
Through extensive analysis, the contacts are optimally designed to bring the best spring action. Once this is set, the contacts are then precision molded.

Tough against solder rise! Ni Barrier construction

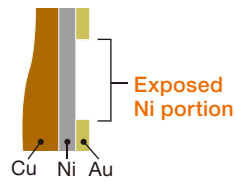
Exposed nickel is placed on mid part of socket contacts. This contact, while being ultra low in profile, prevents solder rise.

Exposing Ni plated area prevents solder rise

Exposed Ni barrier portion



Cross section of the socket side contact



Solder remains in the terminals and stable fillet mold is possible.

Solder rise after reflow*1



Example without Ni barrier Solder rises horizontal area

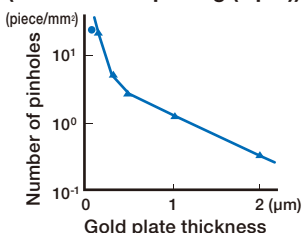


Example with Ni barrier Ni exposure part Limit of solder rise.

Tough against corrosive gases! Porosity Treatment

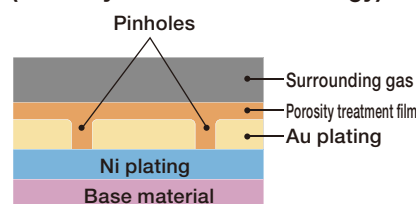
This treatment consists of coating surface with a very thin film to seal pinholes in the gold plating. We have developed this porosity treatment technology, which ensures the same contact reliability for thin gold plating as that of thick gold plating.

Relationship between gold plate thickness and number of pinholes (on the nickel plating (1 μm))



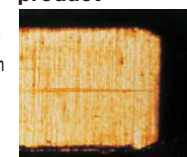
Improvement in resistance to corrosion, insertion/ removal durability and contact reliability for digital signals

Plating technology (Porosity treatment technology)

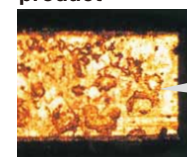


Status of the post's contact after the sulfur dioxide test*2

Porosity-treated product



Conventional product



Corroded mainly at the pinholes.



*1 Solder paste coating conditions: Metal screen thickness; 120 μm; Open ratio 90% (solder amount 136% of recommended value)



Reflow conditions: (lead-free solder conditions) temperature profile; 260C peak temperature, atmosphere; N2 reflow (oxygen concentration 1,000 ppm)



*2 Test conditions SO2 concentration: 103 ppm, Humidity: 90 to 95% RH, Temperature: 402C Time: 145 hours

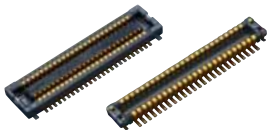
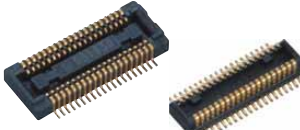
Narrow pitch Connectors Selector Chart

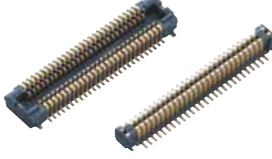

Narrow pitch connectors

Terminal pitch	0.35 mm pitch		
Types	For Board-to-FPC		
Product name	S35		A35US
Part No.	Socket: AXG1*** Header: AXG2***		Socket: AXG7*** Header: AXG8***
Shape			
Features	<ul style="list-style-type: none"> ● Slim: width 1.7mm ● Low profile construction: mated height 0.6mm/0.8mm ● “TOUGH CONTACT” construction withstands tough environments despite being slim and low profile. ● For 0.6mm mated height, thanks to our proprietary “Fine fitting” construction, high removability with a nice click feel is maintained while being low profile. 		<ul style="list-style-type: none"> ● 0.6mm mated height with 2.2mm width ● Proprietary “Fine Fitting Construction” ● A slim 2.2mm (width) design provides space-saving benefits. ● “TOUGH CONTACT” construction provides low profile and slim design resistant to various environmental conditions. ● Soldering terminals enhance mounting strength ● Connectors for inspection available
Mated height	0.6mm	0.8mm	0.6mm
Dimensions (short width) (Include terminal)	Socket: 1.7mm Header: 1.5mm		Socket: 2.2mm Header: 1.8mm
No. of pins	100		
	90		
	80		
	70		
	60	60	60
	50	50 54	50
	40	40 44	40 44
	30	30 34	30 34
	20	20 24	20 24
No. of pins	10	6 10 12 16	10 12 16
	12	12	12
	16		
	20		
	24		
	30		
	34		
	40		
	44		
Rated current	0.3A/pin contact (Max. 5 A at total pin contacts)		0.3A/pin contact (Max. 5 A at total pin contacts)
Rated voltage	60V AC/DC		60V AC/DC
Ambient temperature	-55 to +85°C		-55 to +85°C
Insertion and removal life	30 times		30 times



Terminal pitch	0.35 mm pitch	
Types	For Board-to-FPC	For Board-to-FPC/Board-to-Board
Product name	A35S	P35S
Part No.	Socket: AXE7*** Header: AXE8***	Socket: AXT1*** Header: AXT2***
Shape		
Features	<ul style="list-style-type: none"> ● 0.35mm terminal pitch, 2.5mm width and 0.8mm mated height ● Low profile type with up to 100 pins ● “TOUGH CONTACT” construction provides high resistance to various environmental. ● Simple lock structure provides tactile feedback to ensure excellent mating/unmating operation feel. ● Connectors for inspection available 	<ul style="list-style-type: none"> ● “TOUGH CONTACT” construction provides high resistance to various environmental. ● Pattern wiring is possible on PC board of the connector undersurface ● Connectors for inspection available
Mated height	0.8mm	1.5mm
Dimensions (short width) (Include terminal)	Socket: 2.5mm Header: 2.0mm	Socket: 3.6mm Header: 2.35mm
No. of pins	100	100
	90	
	80	80
	70	70
	60	60 64
	50	50 54
	40	40 44
	30	30 34
	20	20 24
10	10 12 16	
Rated current	0.25A/pin contact (Max. 4 A at total pin contacts)	0.25A/pin contact (Max. 4 A at total pin contacts)
Rated voltage	60V AC/DC	60V AC/DC
Ambient temperature	-55 to +85°C	-55 to +85°C
Insertion and removal life	30 times	50 times

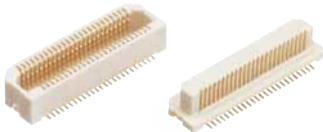
Terminal pitch	0.4 mm pitch			
Types	For Board-to-FPC			
Product name	A4US		A4S	
Part No.	Socket: AXE1*** Header: AXE2***		Socket: AXE5*** Header: AXE6***	
Shape				
Features	<ul style="list-style-type: none"> ● Slim body width of 2.0mm / 2.2mm contributes to space-saving. ● “TOUGH CONTACT” construction provides high resistance to various environmental. ● Comfortable click feel and high removal force with unique “fine fitting” construction (0.6mm mated height) ● Connectors for inspection available 		<ul style="list-style-type: none"> ● Simple lock structure provides tactile feedback to ensure excellent mating/unmating operation feel. ● “TOUGH CONTACT” construction provides high resistance to various environmental. ● Connectors for inspection available 	
Mated height	0.6mm	0.8mm	0.8mm	1.0mm
Dimensions (short width) (Include terminal)	Socket: 2.2mm Header: 1.8mm	Socket: 2.0mm Header: 1.8mm	Socket: 2.5mm Header: 2.0mm	
No. of pins	100			
	90			
	80		80	80
	70		70	70
	60		60	60
	50	50	50	50 54
	40	40	40	40 44
	30	30	30 34 36	30 32
	20		20 24	20 22 24 26 28
10	16	10 14 18	10 12 14 16 18	
Rated current	0.3A/pin contact (Max. 5 A at total pin contacts)		0.3A/pin contact (Max. 5 A at total pin contacts)	
Rated voltage	60V AC/DC		60V AC/DC	
Ambient temperature	-55 to +85°C		-55 to +85°C	
Insertion and removal life	30 times		30 times	

Terminal pitch	0.4 mm pitch							
Types	For Board-to-FPC			For Board-to-FPC/Board-to-Board				
Product name	F4S			P4				
Part No.	Socket: AXT5*** Header: AXT6***			Socket: AXK7*** Header: AXK8***				
Shape								
Features	<ul style="list-style-type: none"> ● “TOUGH CONTACT” construction provides high resistance to various environmental. ● Simple lock structure provides tactile feedback to ensure excellent mating/unmating operation feel. ● Connectors for inspection available 			<ul style="list-style-type: none"> ● Mated heights of 1.5, 2.0, 2.5, 3.0 and 3.5mm is available ● “TOUGH CONTACT” construction provides high resistance to various environmental. ● Pattern wiring is possible on PC board of the connector undersurface ● Connectors for inspection available 				
Mated height	1.0mm		1.2mm	1.5mm	2.0mm	2.5mm	3.0mm	3.5mm
Dimensions (short width) (Include terminal)	Socket: 3.6mm Header: 2.6mm			Socket: 5.1mm Header: 3.96mm				
No. of pins	100			100				
	90							
	80	80	80	80	80	80	80	
	70	70	70	70	70	70		
	60	60 64		60 64	60	60	60	
	50	50 54	50	50 54	50	50	50	
	40	40 42 44 48	40	40 44	40	40	40	40
	30	30 32 34 36	30	30 34	30	30	30	30
20	20 22 24 26 28		20 22 24 26	20 24 26	20 24	20 24	20	
10	10 12 14 16	10	14	14	14			
Rated current	0.3A/pin contact (Max. 5 A at total pin contacts)			0.3A/pin contact (Max. 5 A at total pin contacts)				
Rated voltage	60V AC/DC			60V AC/DC				
Ambient temperature	-55 to +85°C			-55 to +85°C				
Insertion and removal life	50 times			50 times				

Terminal pitch	0.4 mm pitch				
Types	For Board-to-FPC/Board-to-Board				
Product name	P4S				P4S shield type
Part No.	Socket: AXT3*** Header: AXT4***				Socket: AXT3*** Header: AXT4***
Shape					
Features	<ul style="list-style-type: none"> ● Mated heights of 1.5, 2.0, 2.5 and 3.0mm is available ● “TOUGH CONTACT” construction provides high resistance to various environmental. ● Pattern wiring is possible on PC board of the connector undersurface ● Connectors for inspection available ● Shield type is also available. 				<ul style="list-style-type: none"> ● Radiation noise is reduced thanks to better grounding with multi-point ground construction and covering using a shield plate. ● “TOUGH CONTACT” construction provides high resistance to various environmental. ● Previous standard product (P4S) can also be used on the header side ● Freedom of design is increased, because it has the same foot pattern as the previous standard product (P4S).
Mated height	1.5mm	2.0mm	2.5mm	3.0mm	1.5mm
Dimensions (short width) (Include terminal)	Socket: 3.6mm Header: 2.35mm				Socket: 3.8mm Header: 2.35mm
No. of pins	100	100	100	100	
	90	90			
	80		80	80	
	70				74
	60	60 64		60 60	
	50	50 54			50
	40	40 44 46	40	40	
	30	30 32 34 36 38	30	30 30	38
	20	20 22 24 26	20	20 20	
10	10 16			14	
Rated current	0.3A/pin contact (Max. 5 A at total pin contacts)				0.3A/pin contact (Max. 5 A at total pin contacts)
Rated voltage	60V AC/DC				60V AC/DC
Ambient temperature	-55 to +85°C				-55 to +85°C*1
Insertion and removal life	50 times				50 times

*1 Products available that can handle ambient temperatures of -55 to +105°C. For details, please contact our sales office.


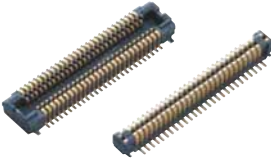
Terminal pitch	0.5 mm pitch					
Types	For Board-to-FPC/Board-to-Board			For Board-to-Board		
Product name	P5KF			P5K		
Part No.	Socket: AXK5F*** Header: AXK6F***			Socket: AXK5*** Header: AXK6***		
Shape						
Features	<ul style="list-style-type: none"> ● Wide lineup for pin counts ● “TOUGH CONTACT” construction provides high resistance to various environmental. ● Simple lock structure provides tactile feedback to ensure excellent mating/unmating operation feel. ● Effective mating length 0.55mm 			<ul style="list-style-type: none"> ● “TOUGH CONTACT” construction provides high resistance to various environmental. ● The effective mating length is long and there is enough space for mating. 		
Mated height	1.5mm	2.0mm	2.5mm	3.0mm	3.5mm	
Dimensions (short width) (Include terminal)	Socket: 5.8mm Header: 3.3mm			Socket: 5.8mm Header: 4.6mm		
No. of pins	100	100	100	100 120	100 120	
	90					
	80	80	80	80	80	
	70	70	70	70	70	
	60	60	60	60	60	
	50	50	50	50	50	
	40	40	40	40	40	
	30	30 32 34	30 34	30 34	30	30 34
	20	20 22 24 26	20 22 24 26	20 22 24	20 22	20 22
10	10 12 14 16 18	10 12 14 16 18	10 12 14 16			
Rated current	0.5A/pin contact (Max. 10 A at total pin contacts)			0.5A/pin contact (Max. 10 A at total pin contacts)		
Rated voltage	60V AC/DC			60V AC/DC		
Ambient temperature	-55 to +85°C			-55 to +85°C		
Insertion and removal life	50 times			50 times		



Terminal pitch	0.5 mm pitch									
Types	For Board-to-Board									
Product name	P5KS									
Part No.	Socket: AXK5S*** Header: AXK6S***									
Shape										
Features	<ul style="list-style-type: none"> ● Wide range of mated heights (4.0 mm, 4.5 mm, 5.0 mm, 5.5 mm, 6.0 mm, 6.5 mm, 7.0 mm, 8.0 mm, and 9.0 mm) is available ● “TOUGH CONTACT” construction provides high resistance to various environmental. ● The effective mating length is long and there is enough space for mating. 									
Mated height	4.0mm	4.5mm	5.0mm	5.5mm	6.0mm	6.5mm	7.0mm	8.0mm	9.0mm	
Dimensions (short width) (Include terminal)	Socket: 5.4mm Header: 5.0mm									
No. of pins	100	100	100	100	100	100	100	100	100	100
	90									
	80	80	80	80	80	80	80	80	80	80
	70	70	70	70	70	70	70	70	70	70
	60	60	60	60	60	60	60	60	60	60
	50	50	50	50	50	50	50	50	50	50
	40	40	40	40	40	40	40	40	40	40
	30	30 34	30 34	30 34	30 34	30	30	30	30	30
	20	20 24	20 24	20 24	20 24	20	20	20	20	20
	10									
Rated current	Power terminal	—								
	Signal terminal	0.5A/pin contact (Max. 16 A at total pin contacts)								
Rated voltage	60V AC/DC									
Ambient temperature	-55 to +85°C*1									
Insertion and removal life	50 times									

*1 Products available that can handle ambient temperatures of -55 to +105°C. For details, please contact our sales office.

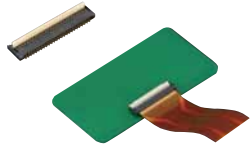
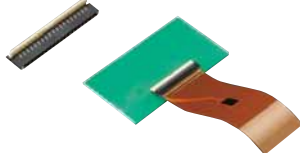


High Current Connectors Selector Chart

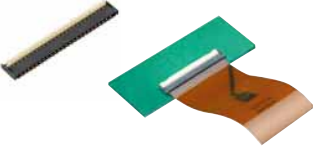

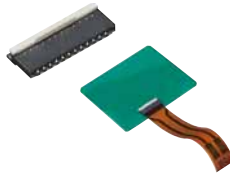


Terminal pitch	0.35 mm pitch		
Types	Connector for Board-to-FPC		
Product name	S35H	A35UH	
Part No.	Socket: AXF5B**12 Header: AXF6B**12	Socket: AXF5D**12 Header: AXF6D**12	
Shape			
Features	<ul style="list-style-type: none"> ● Small size (0.6mm Mated Height with 1.7mm width) ● Increased robustness with metal shell construction on the flange ● Supports 5.4A power terminal for reduced number of power line pins ● “TOUGH CONTACT” construction provides high resistance to various environmental. 	<ul style="list-style-type: none"> ● Supports 5A power terminals ● With power terminal, so number of pins can be reduced ● “TOUGH CONTACT” construction provides high resistance to various environmental. 	
Mated height	0.6mm	0.6mm	
Dimensions (short width) (Include terminal)	Socket: 1.7mm Header: 1.5mm	Socket: 2.2mm Header: 1.8mm	
No. of pins	100		
	90		
	80		
	70	70	
	60	60	
	50	50 54	
	40	40 44	
	30	30 34	
	20	20 24	
10	10 12 16		
Rated current	Power terminal	5.4A/pin contact	5A/pin contact
	Signal terminal	0.3A/pin contact (Max. 2 A at total pin contacts)	0.3A/pin contact (Max. 5 A at total pin contacts)
Rated voltage	30V AC/DC	30V AC/DC	
Ambient temperature	-55 to +85°C	-55 to +85°C	
Insertion and removal life	30 times	30 times	


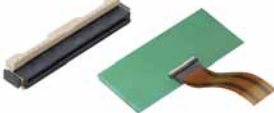


Terminal pitch	0.35 mm pitch	0.4 mm pitch
Types	Connector for Board-to-FPC	
Product name	A35P	P4SP
Part No.	Socket: AXF5A*** Header: AXF6A***	Socket: AXF5G**12 Header: AXF6G**12
Shape		
Features	<ul style="list-style-type: none"> ● High current rating 5A (using 1.25 A/pin × 8 pins) ● By supporting high current rating, small number of pins design is available. ● Increased design flexibility (pin layout, high current multiple lines) 	<ul style="list-style-type: none"> ● Capable of MAX. 5A for power ● Rated current 1A/pin (for power) 0.5A/pin (for signal), Total: Max. 12A ● Any terminal can be applied for power terminal ● Low contact resistance: Max. 40mΩ ● High speed transmission of 10Gbps is available
Mated height	0.8mm	1.5mm
Dimensions (short width) (Include terminal)	Socket: 2.5mm Header: 2.0mm	Socket: 3.6mm Header: 2.35mm
No. of pins	100	100
	90	90
	80	80
	70	70
	60	60 64
	50	50 54
	40	40 44
	30	30 34 36 38
	20	20 24 26
10	10 12 16	
Rated current	Power terminal	—
	Signal terminal	For power contact: 1.5 A/pin contact × 4 pin contacts or 1.25 A/pin contact × 8 pin contacts For signal contact: 0.5 A/pin contact (12 A or less at total pin contacts)
Rated voltage	30V AC/DC	30V AC/DC
Ambient temperature	-55 to +85°C	-55 to +85°C
Insertion and removal life	30 times	50 times

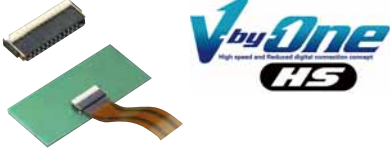


Terminal pitch	0.8 mm pitch		
Types	Connector for Board-to-FPC		
Product name	B01	B02	
Part No.	Socket: AXF36*500 Header: AXF46*500	Socket: AXF38*700 Header: AXF48*700	
Shape			
Features	<ul style="list-style-type: none"> ● High current rating: 6A (3A/pin × 4 pins) ● High removal force while miniature and low profile 	<ul style="list-style-type: none"> ● High current rating: 10A (5A/pin × 4 pins) ● 4 signal pin type for wide range of control applications ● High removal force while miniature and low profile 	
Mated height	0.6mm/0.8mm	0.7mm	
Dimensions (short width) (Include terminal)	Socket: 2.4mm Header: 1.8mm	Socket: 2.2mm Header: 1.8mm	
No. of pins	100		
	90		
	80		
	70		
	60		
	50		
	40		
	30		
	20		
	10	6	8
Rated current	Power terminal	3A/pin contact	5A/pin contact
	Signal terminal	0.3A/pin contact	0.3A/pin contact
Rated voltage	30V AC/DC	30V AC/DC	
Ambient temperature	-55 to +85°C	-55 to +85°C	
Insertion and removal life	30 times	30 times	

FPC/FFC Connectors Selector Chart

Contact pitch	0.2 mm pitch	0.3 mm pitch
Product name	Y2B	Y3BL
Part No.	AYF21**35	AYF35**25
Shape		
Features	<ul style="list-style-type: none"> ● Slim (width: 3.15 mm) and low profile design ● Double top and bottom contacts construction ● Time and effort can be reduced by delivering with lever open. ● Wiring patterns can be placed under the connector ● Ni barrier with high resistance to solder creepage. 	<ul style="list-style-type: none"> ● Low profile (0.6 mm) and slim design ● Compatible with FPC 0.2 mm thickness ● High durability assured with proprietary soldering terminals ● Time and effort can be reduced by delivering with lever open. ● Wiring patterns can be placed under the connector ● Ni barrier with high resistance to solder creepage.
Lock structure	 Back lock	 Back lock
Compatibility with FPC/FFC	FPC	FPC
Applicable FPC thickness	0.2mm	0.2mm
Contact structure	Top and bottom double contacts	Top contact
Terminal pitch	0.4mm	0.6mm
Mounting height	0.9mm	0.6mm
Dimensions (width)	3.15mm (Including lever) 2.95mm	3.35mm (Including lever) 2.95mm
No. of pins	70	
	60	61
	50	51
	40	41
	30	31
	20	23
	10	
	2 to 9	7
Rated current	0.2A/pin contact (Max. 5A at total pin contacts)	0.2A/pin contact
Rated voltage	50V AC/DC	50V AC/DC
Ambient temperature	-55 to +85°C	-55 to +85°C
Insertion and removal life	20 times	20 times

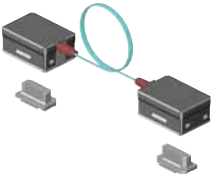
Contact pitch	0.3 mm pitch		
Product name	Y3B	Y3BW	Y3BC
Part No.	AYF33**35	AYF33**65	AYF36**35
Shape			
Features	<ul style="list-style-type: none"> ● Double top and bottom contacts construction ● Wiring patterns can be placed under the connector ● Lock hold type with excellent holding force is available (Y3BW) <ol style="list-style-type: none"> 1. With a structure that temporarily holds the FPC 2. Higher FPC holding force ● Ni barrier with high resistance to solder creepage 		<ul style="list-style-type: none"> ● Double top and bottom contacts construction ● Wiring patterns can be placed under the connector ● Lever open/close operation is possible without FPC inserted. ● Ni barrier with high resistance to solder creepage
Lock structure	 Back lock		 Back lock
Compatibility with FPC/FFC	FPC		FPC
Applicable FPC thickness	0.2mm		0.2mm
Contact structure	Top and bottom double contacts		Top and bottom double contacts
Terminal pitch	0.6mm		0.6mm
Mounting height	0.9mm		1.0mm
Dimensions (width)	3.15mm (Including lever) 2.95mm		3.5mm (Including lever) 3.2mm
No. of pins	70	71	
	60	61	
	50	51	51
	40	41 45	
	30	31 33 35 37 39	31 39
	20	21 23 25 27	25
	10	11 13 15 17	11
	2 to 9	7 8 9	
Rated current	0.2A/pin contact		0.2A/pin contact
Rated voltage	50V AC/DC		50V AC/DC
Ambient temperature	-55 to +85°C		-55 to +85°C
Insertion and removal life	20 times		20 times

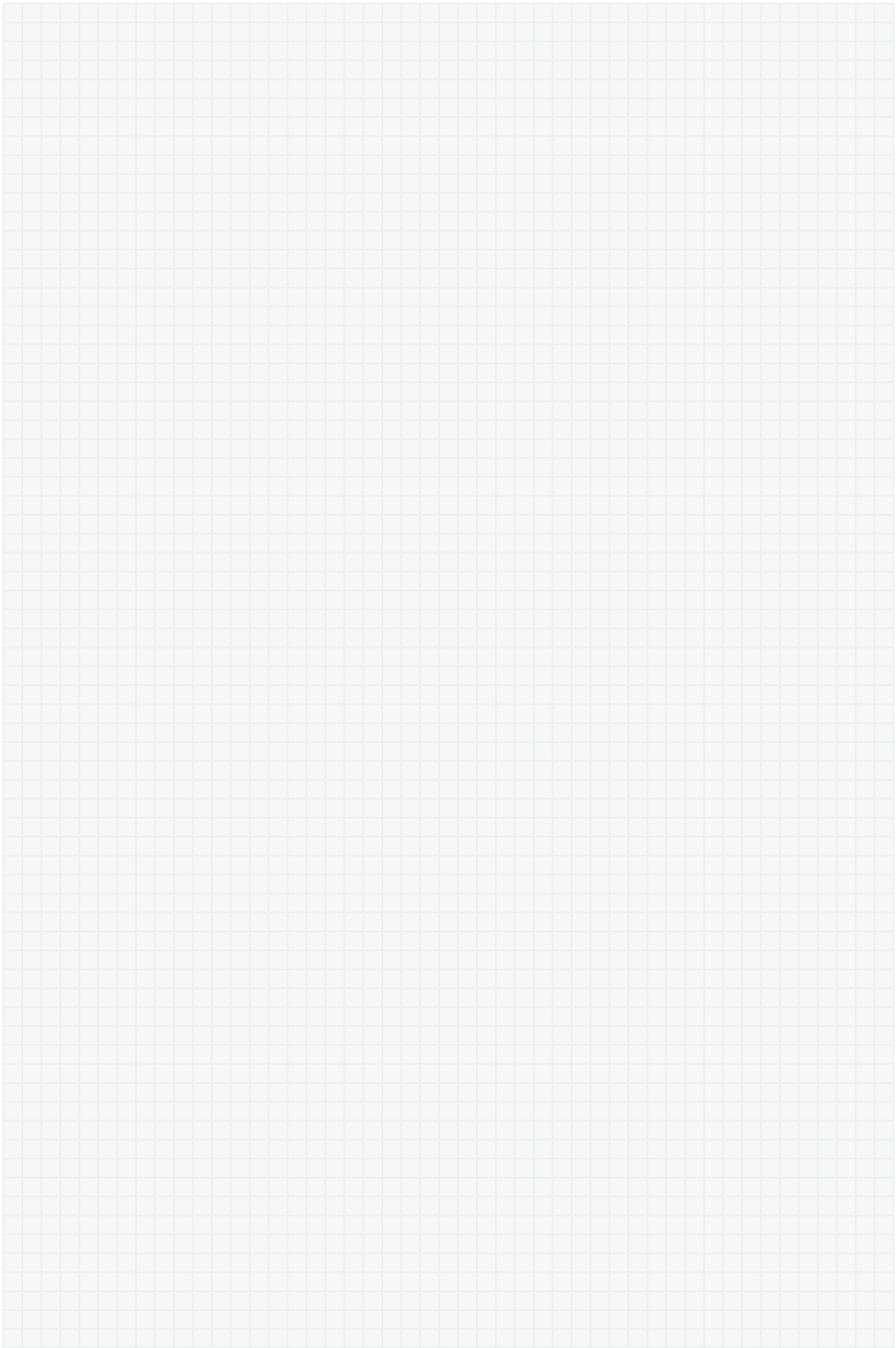
Contact pitch	0.4 mm pitch	0.5 mm pitch
Product name	Y4BH	Y5BH
Part No.	AYF4***35	AYF56***35
Shape		
Features	<ul style="list-style-type: none"> ● Differential impedance matching (100, 90 and 85 Ω) compliant with various high-speed transmission standards ● Double top and bottom contacts construction ● Time and effort can be reduced by delivering with lever open 	<ul style="list-style-type: none"> ● Differential impedance matching (90 Ω, 85 Ω) compliant with various high-speed transmission standards ● 0.5 mm pitch, 1.8 mm height and double top and bottom contact construction ● Supports USB 3.1 high-speed transmission standard (transmission speed: up to 10 Gbps)* ● Contributes to customer cost savings by using impedance matching FFC. <p style="text-align: right; font-size: small;">*Compared to use of FPC and micro coaxial connector.</p>
Lock structure	 Back lock	 Back lock
Compatibility with FPC/FFC	FPC/FFC	FPC/FFC
Applicable FPC thickness	0.3mm	0.3mm
Contact structure	Top and bottom double contacts	Top and bottom double contacts
Terminal pitch	0.4mm	0.5mm
Mounting height	1.0mm	1.8mm
Dimensions (width)	3.7mm (Including lever) 3.2mm	5.5mm (Including lever) 3.9mm
No. of pins	70	
	60	
	50	50
	40	40
	30	
	20	
	10	
	2 to 9	
Rated current	0.3A/pin contact	0.4A/pin contact
Rated voltage	50V AC/DC	50V AC/DC
Ambient temperature	-55 to +85°C	-55 to +85°C
Insertion and removal life	20 times	20 times

Contact pitch	0.5 mm pitch		
Product name	Y5B	Y5BW	
Part No.	AYF53**35	AYF53**65T	
Shape			
Features	<ul style="list-style-type: none"> ● Double top and bottom contacts construction ● Wiring patterns can be placed under the connector ● Lock hold type (Y5BW) with excellent holding force is available (Y5BW: support only FPC) <ol style="list-style-type: none"> 1. With a structure that temporarily holds the FPC 2. Higher FPC holding force <p style="text-align: right; font-size: small;">*V-by-One®HS: An interface for the next-generation high-speed signals developed by THine Electronics, Inc. V-by-One® is a registered trademark of THine Electronics, Inc.</p>		
Lock structure	 Back lock		
Compatibility with FPC/FFC	FPC/FFC	FPC	
Applicable FPC thickness	0.3mm		
Contact structure	Top and bottom double contacts		
Terminal pitch	0.5mm		
Mounting height	1.0mm		
Dimensions (width)	3.7mm (Including lever) 3.2mm		
No. of pins	70		
	60		
	50	50	
	40	40 42	40 48
	30	30 32 34	30 32 38
	20	24 28	22 26 28
	10	10 12 14 16	10 12 14
	2 to 9	4 5 6 8	2 3 4 6 8
Rated current	0.5A/pin contact		
Rated voltage	50V AC/DC		
Ambient temperature	-55 to +85°C*1		
Insertion and removal life	20 times		

*1 Products available that can handle ambient temperatures of -55 to +105°C. For details, please contact our sales office.

Active Optical Connectors Selector Chart

Type	1 channel-Bi-direction	2 channel-Uni-direction
Product name	<h2>Active Optical Connectors V Series</h2>	
Part No.	Integrated cable and plug: AYG4V1****M* Receptacle: AXK6S20447M*	Integrated cable and plug: AYG5V1****M* Receptacle: AXK6S20447M*
Shape		
Features	<ul style="list-style-type: none"> ● Plug is equipped with electrical/optical conversion function. ● Noise reduction of high speed signal and electrical isolation easily achieved. ● High speed and wide data rate transmission possible ● Lineup includes 1 channel-Bi-direction and 2 channel-Uni-direction <p>1 channel-Bi-direction: 20 Mbps to Max. 6 Gbps 2 channel-Uni-direction: 20 Mbps to Max. 16 Gbps (20 Mbps to 8 Gbps/ch)</p>	
Transmission rate	20Mbps to 6Gbps/ch	20Mbps to 8Gbps/ch
Power consumption	Max. 230 mW 3.3V DC±0.1	
Operating ambient temperature	0 to +70°C	
Insertion and removal life	50 times	

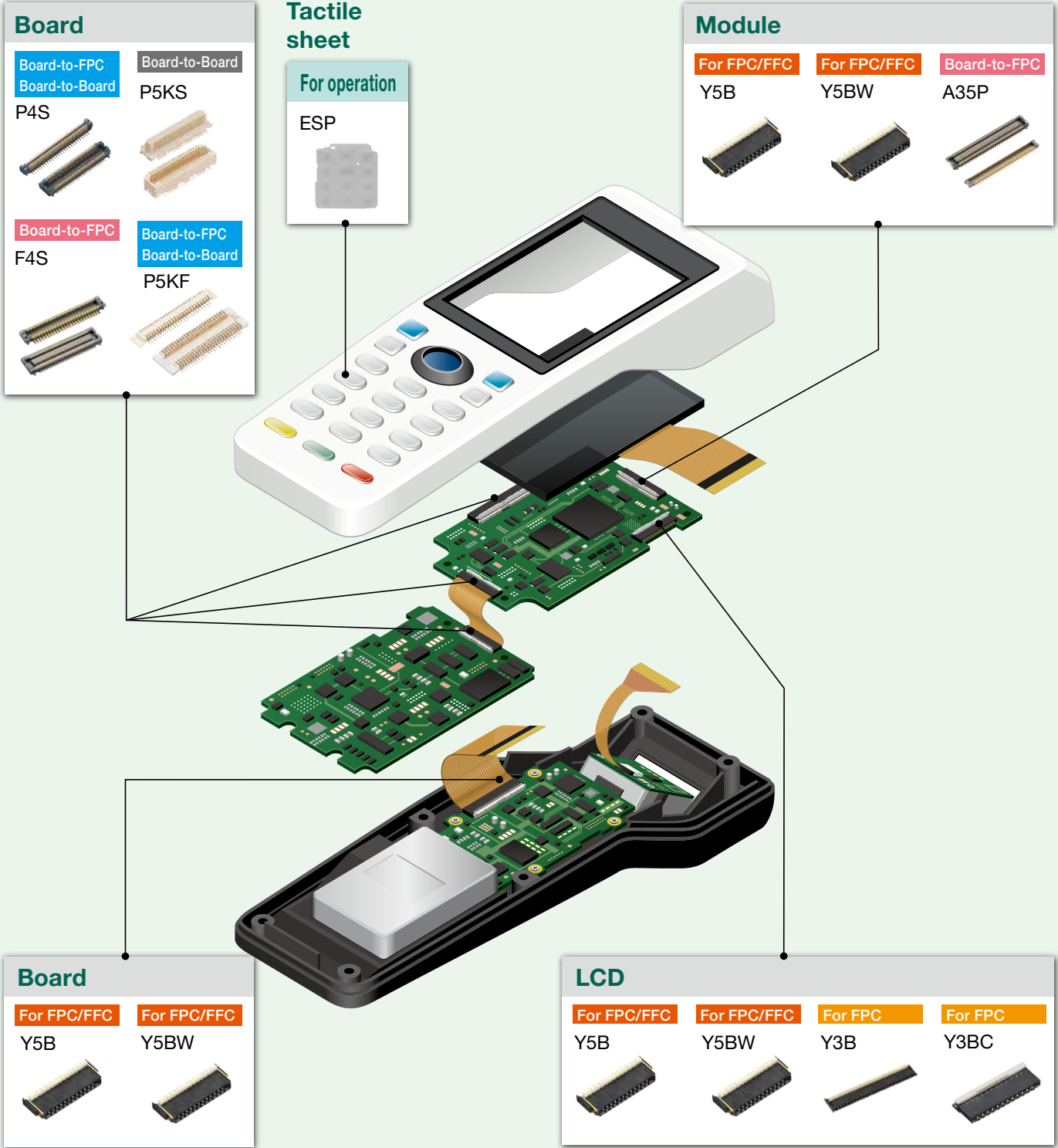


■ Application ■

Connector / Light touch switches

We also have light touch switches in our product lineup. We will introduce them with application examples.
For more information about lineup of light touch switches, please see our website.

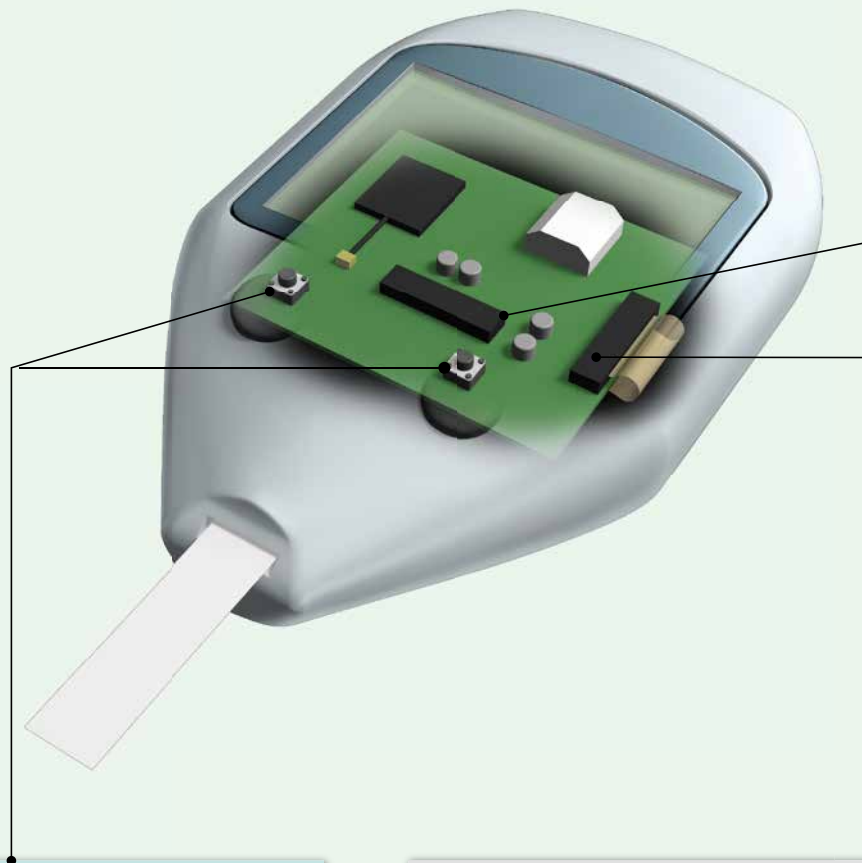
■ Handheld terminal



■ Blood glucose meter

LCD

For FPC	For FPC	For FPC/FFC	For FPC
Y3B	Y3BW	Y5B	Y5BW



Light touch switches

For operation

4735 SMD	4.9mm SMD	3529 SMD	3429 SMD
EVQP2	EVQPL	EVPA A	EVPA Y

Board

For FPC	For FPC	Board-to-FPC Board-to-Board	Board-to-FPC
Y3B	Y3BW	P4S	F4S

*For lineup of our light touch switches, please see our website.

■ Hearable devices

Light touch switches

For power on and operation

2616
SMD

EVPBB



3020
SMD

EVPAW



Board

Board-to-FPC

S35



For FPC

Y3BL



For FPC

Y3B



For FPC



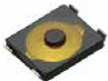

Y2B

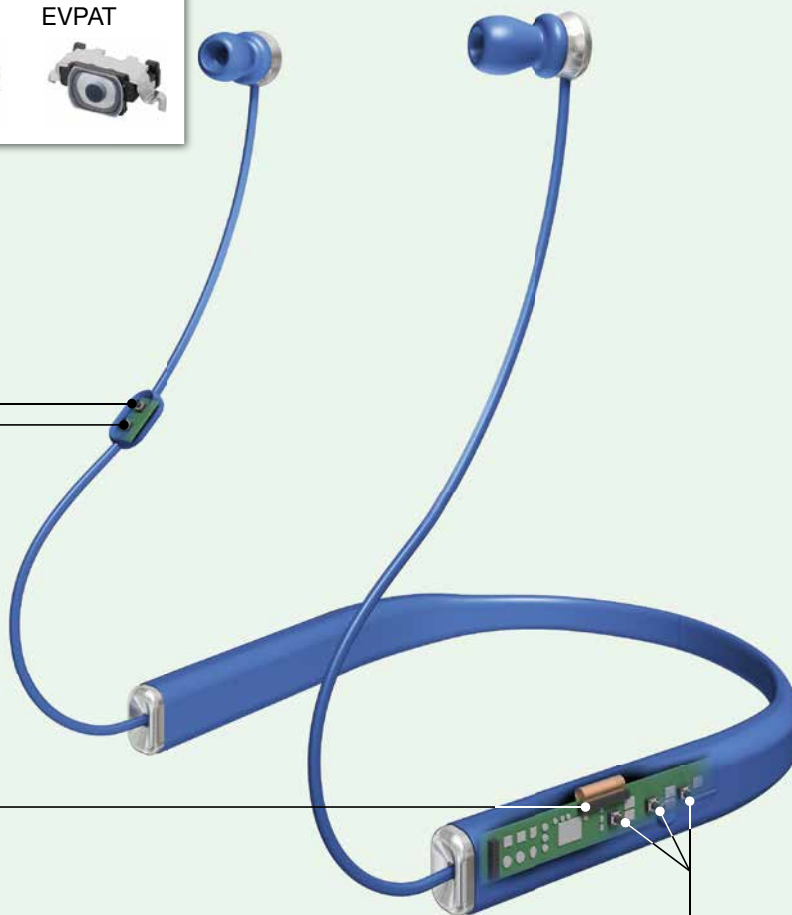


■ Bluetooth earphone





Light touch switches

For operation

3020 SMD	2616 SMD	3026 SMD	3417 SMD
EVPAW	EVPBB	EVPAF	EVPAT
			







Board

For FPC	For FPC	For FPC	Board-to-FPC
Y3BL	Y3B	Y2B	S35
			

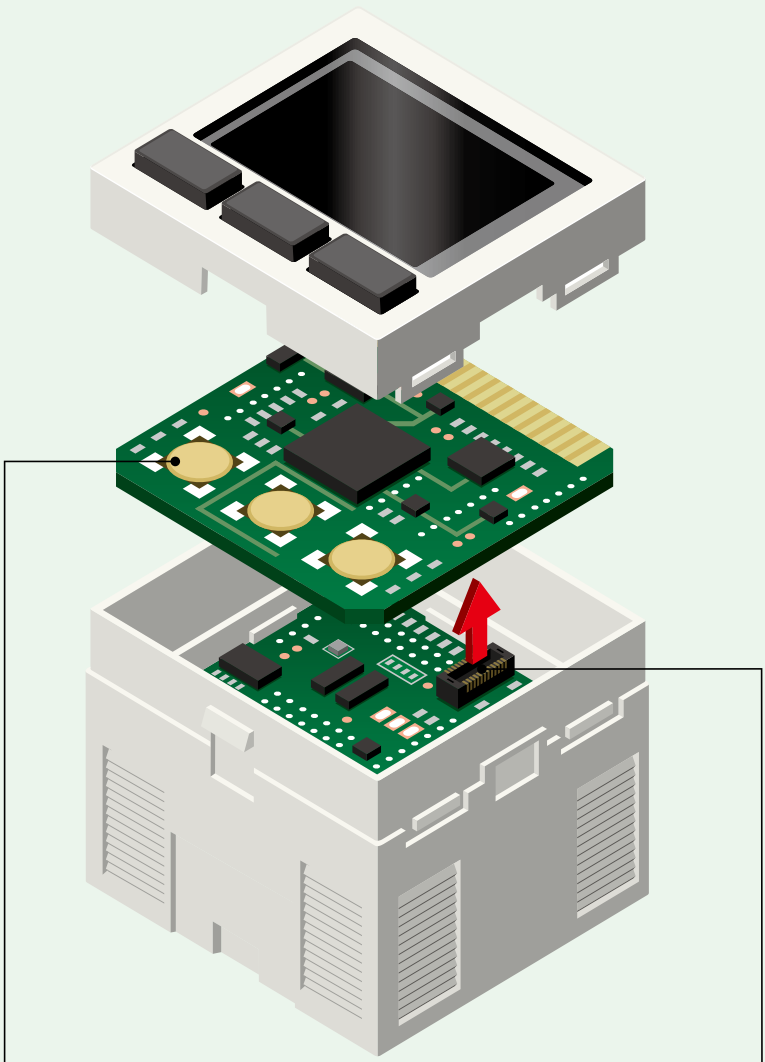
Light touch switches

For power on and operation

3020 SMD	2616 SMD	3026 SMD	3417 Side-operational
EVPAW	EVPBB	EVPAF	EVPAT
			





*For lineup of our light touch switches, please see our website.

■ Pressure sensor



Light touch switches

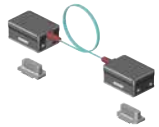
For operation	
4mm SMD	4.9mm SMD
EVQP6	EVQPL
	

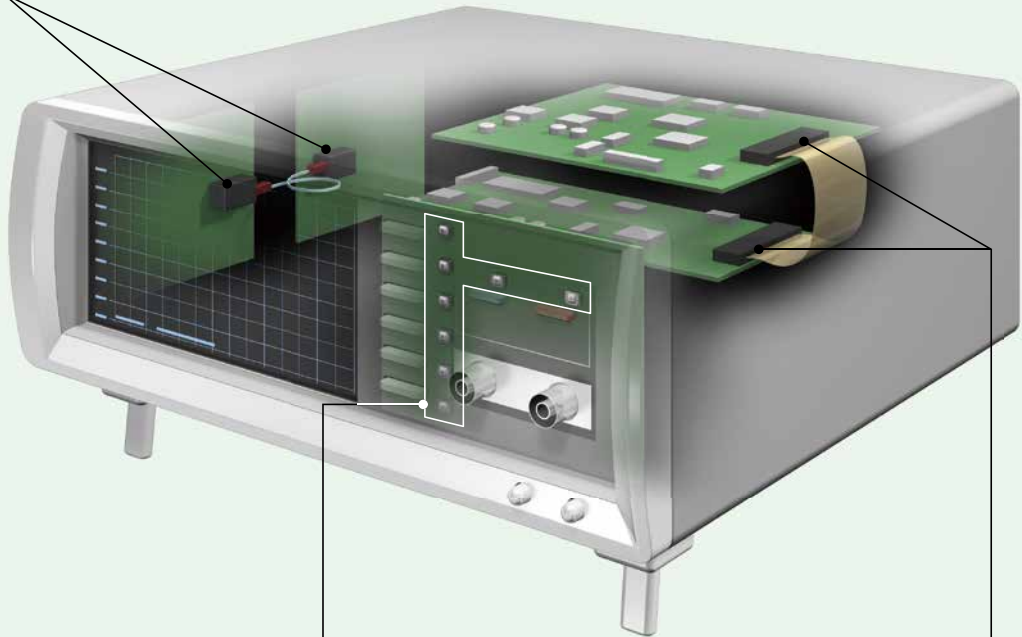
Board			
Board-to-FPC Board-to-Board	Board-to-FPC Board-to-Board	Board-to-FPC Board-to-Board	Board-to-Board
P4	P4S	P5KF	P5KS
			

■ Measuring devices

Board




Active optical connectors








Light touch switches

Menu operation

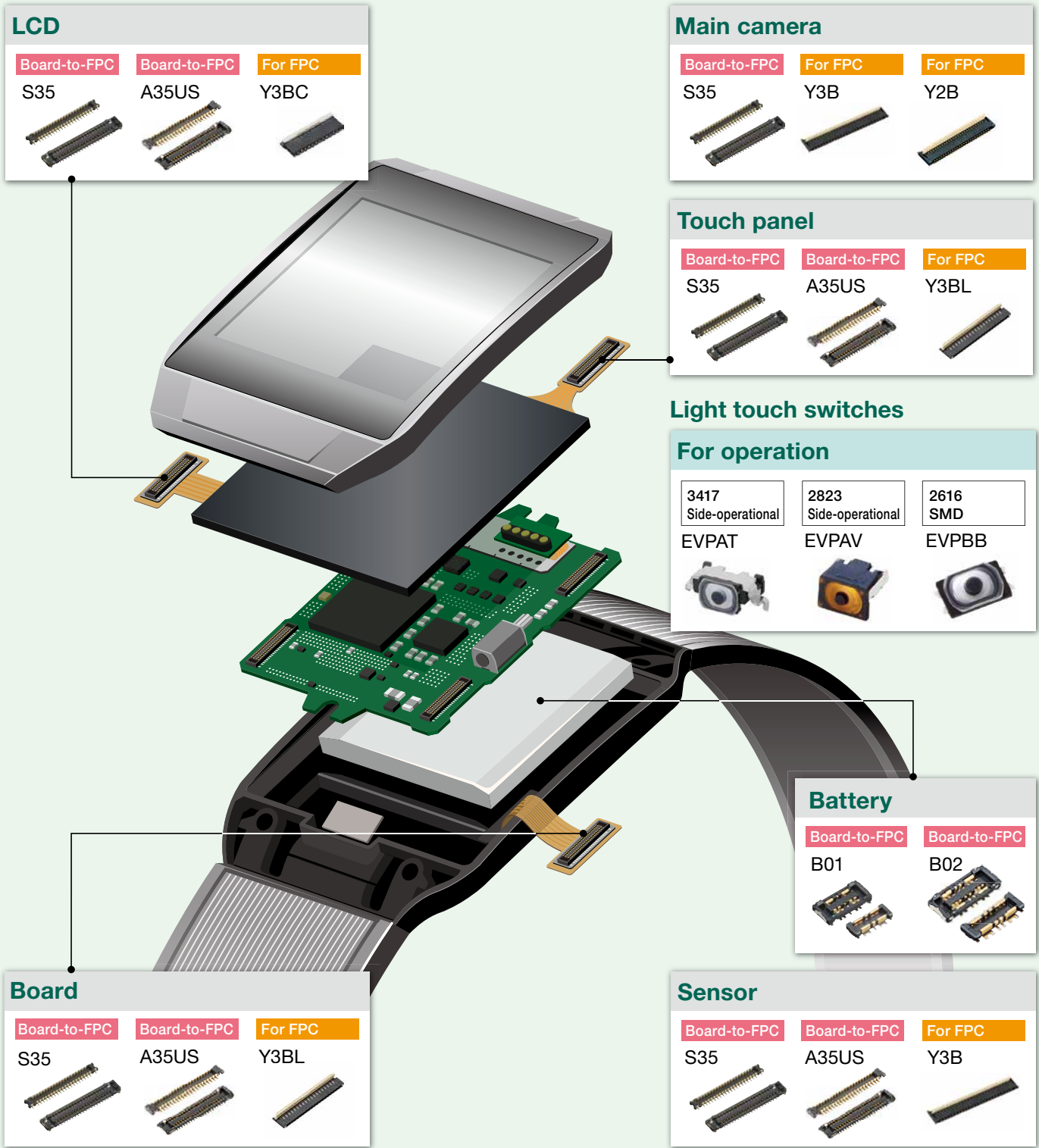
4735 SMD	3529 SMD	6mm SMD
EVQP2	EVPAA	EVQQ2
		

Board

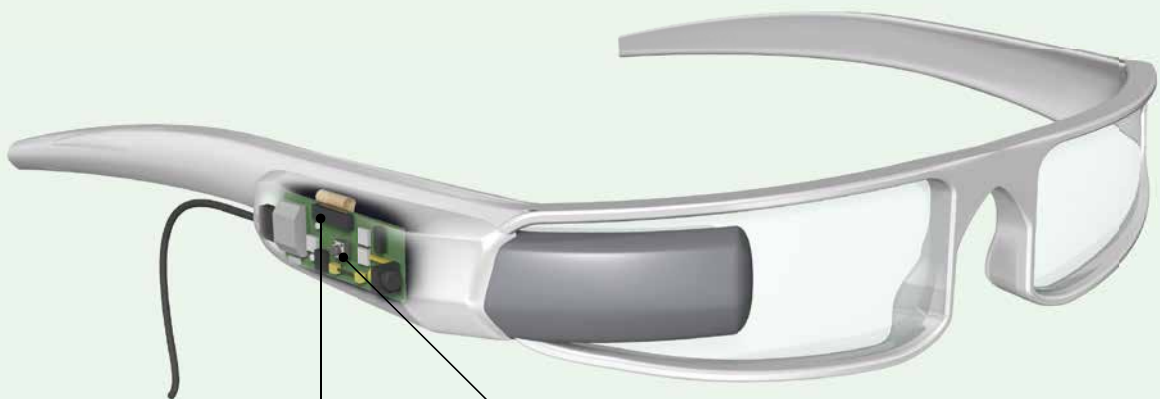
Board-to-FPC Board-to-Board	Board-to-FPC Board-to-Board	Board-to-Board
P4S	P5KF	P5KS
		

*For lineup of our light touch switches, please see our website.

Wearable watch



■ Smart glasses



Board

Board-to-FPC

S35



For FPC

Y3B



For FPC

Y3BW



Light touch switches

For operation

2616
SMD

EVPBB



3020
SMD

EVPAW



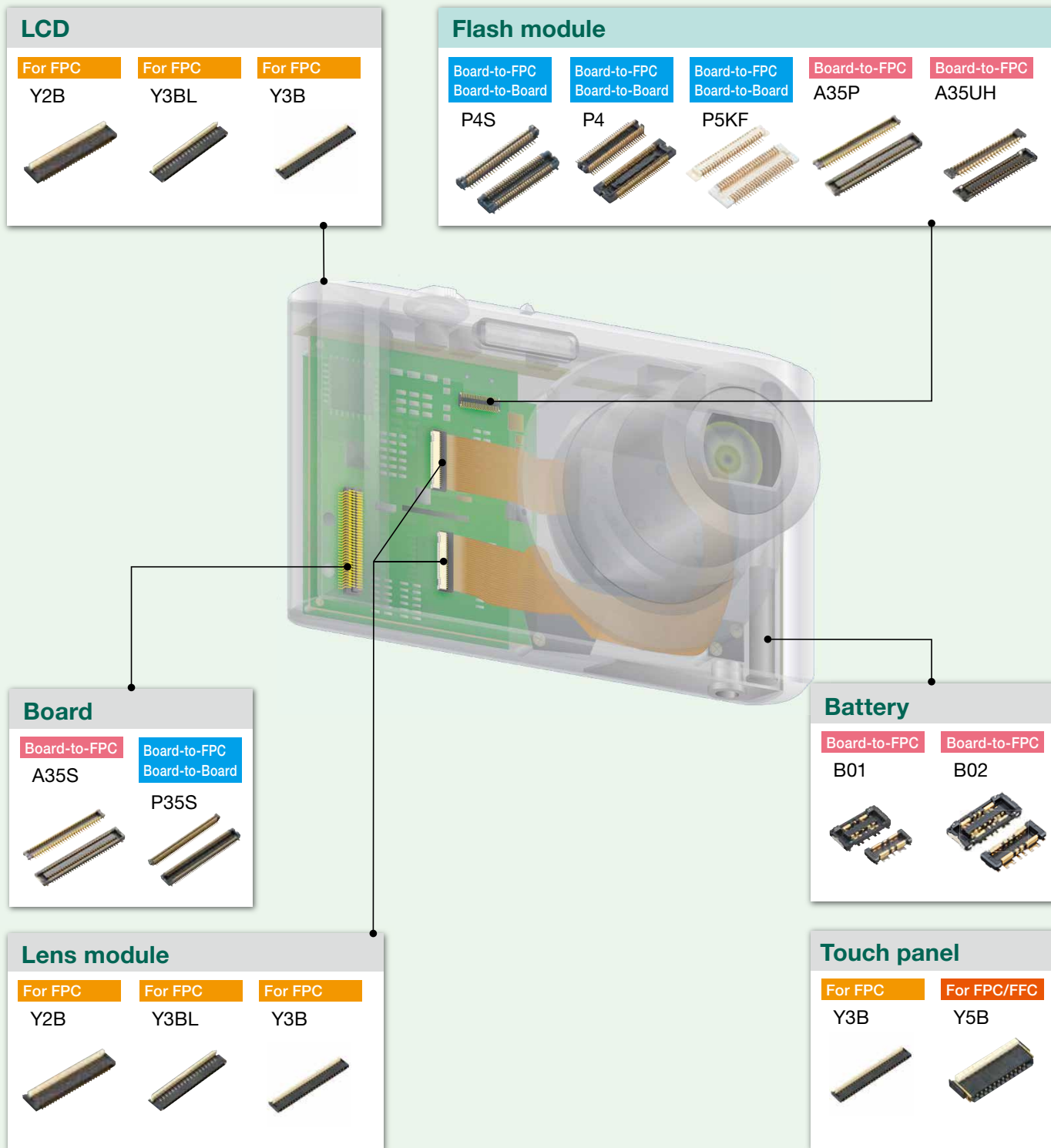
3417
Side-operational

EVPAT



*For lineup of our light touch switches, please see our website.

■ Digital still camera




■ Drive recorder

Light touch switches

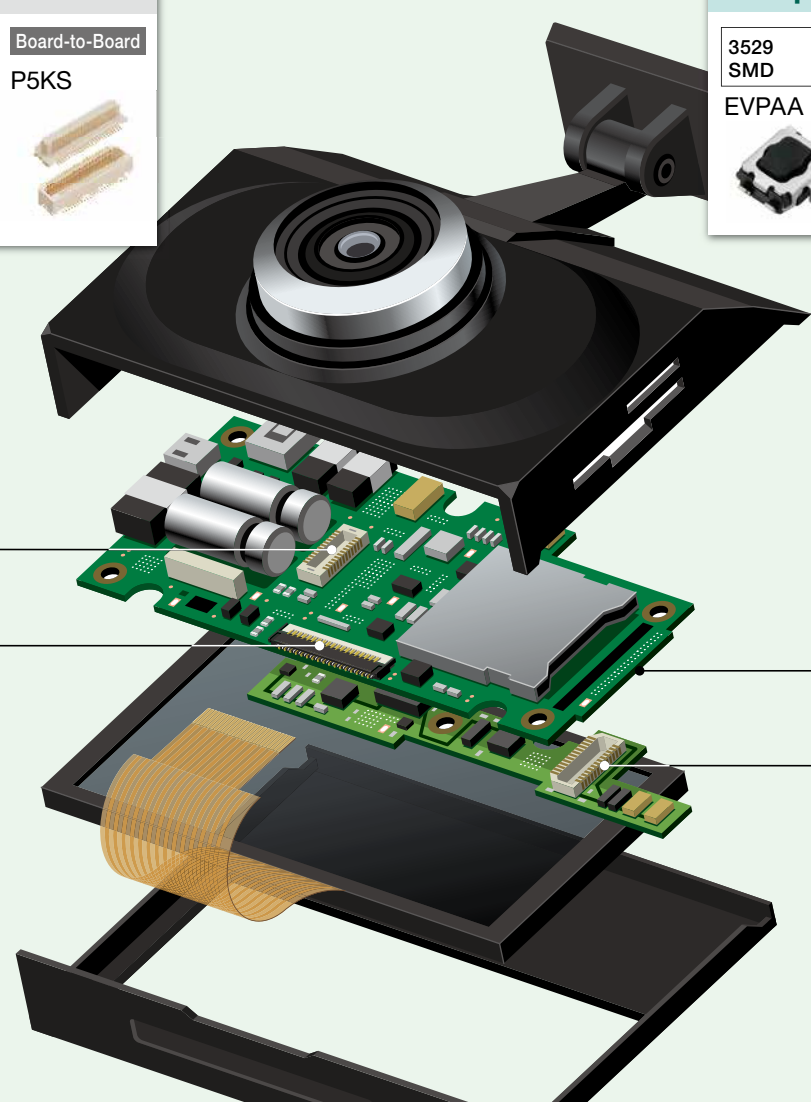
Board

Board-to-FPC Board-to-Board	Board-to-FPC Board-to-Board	Board-to-Board
P4S	P5KF	P5KS




For operation

3529 SMD	3026 SMD
EVPA A	EVPA F


LCD

For FPC	For FPC/FPC	For FPC/FPC
Y4BH	Y5B	Y5BW



Modules

For FPC	Board-to-FPC Board-to-Board	Board-to-FPC Board-to-Board	Board-to-FPC Board-to-Board	Board-to-Board
Y4BH	P4S	P4S Shield type	P5KF	P5KS



*For lineup of our light touch switches, please see our website.

■ Drone

Board

Board-to-Board P5KS	Board-to-FPC Board-to-Board P5KF	Board-to-FPC Board-to-Board P4S	Board-to-FPC A35UH	Board-to-FPC A35P	For FPC/FFC Y5B	For FPC Y5BW
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Light touch switches

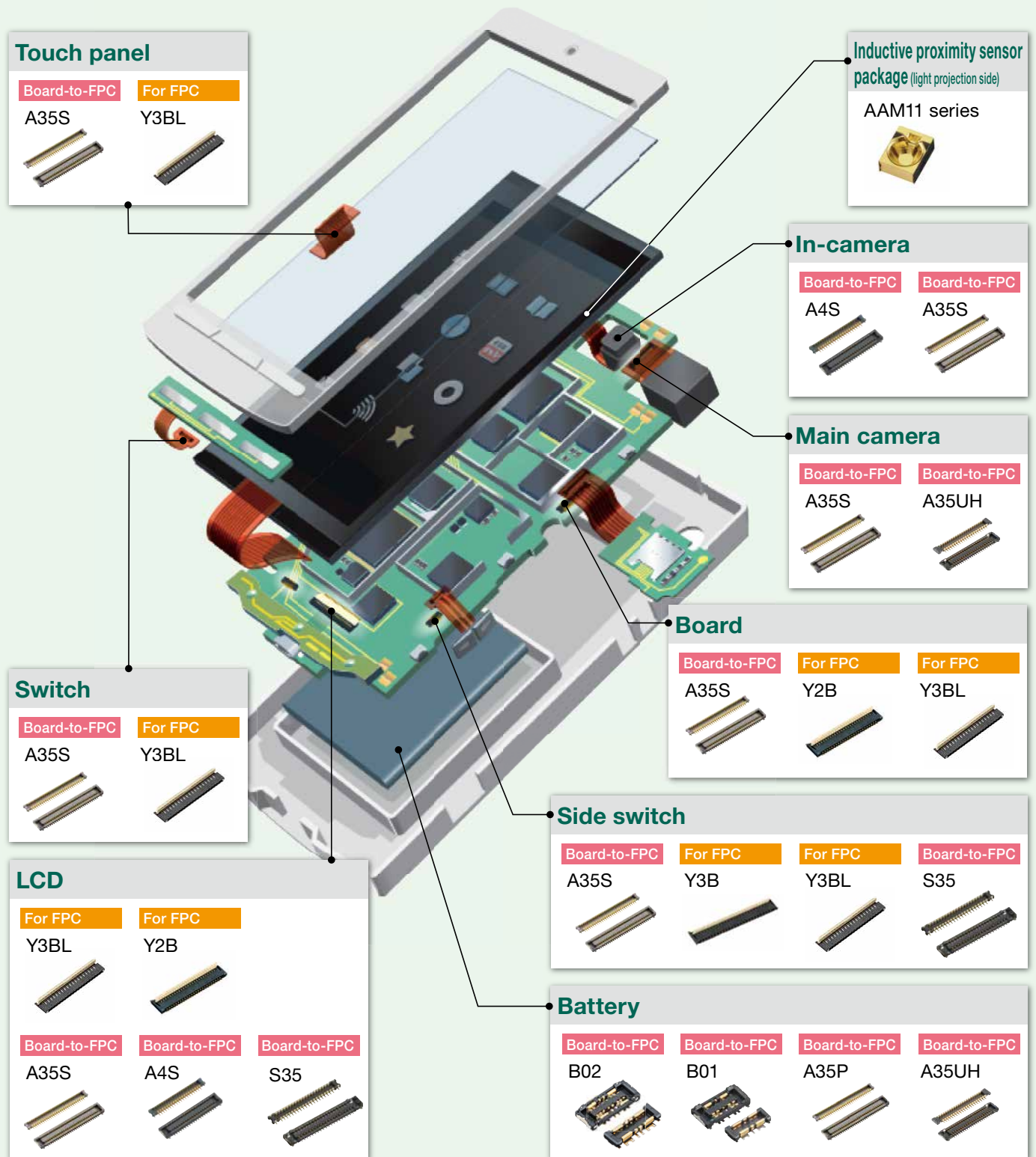
For power on

6mm Middle travel EVPBF	6mm SMD EVQQ2
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Modules

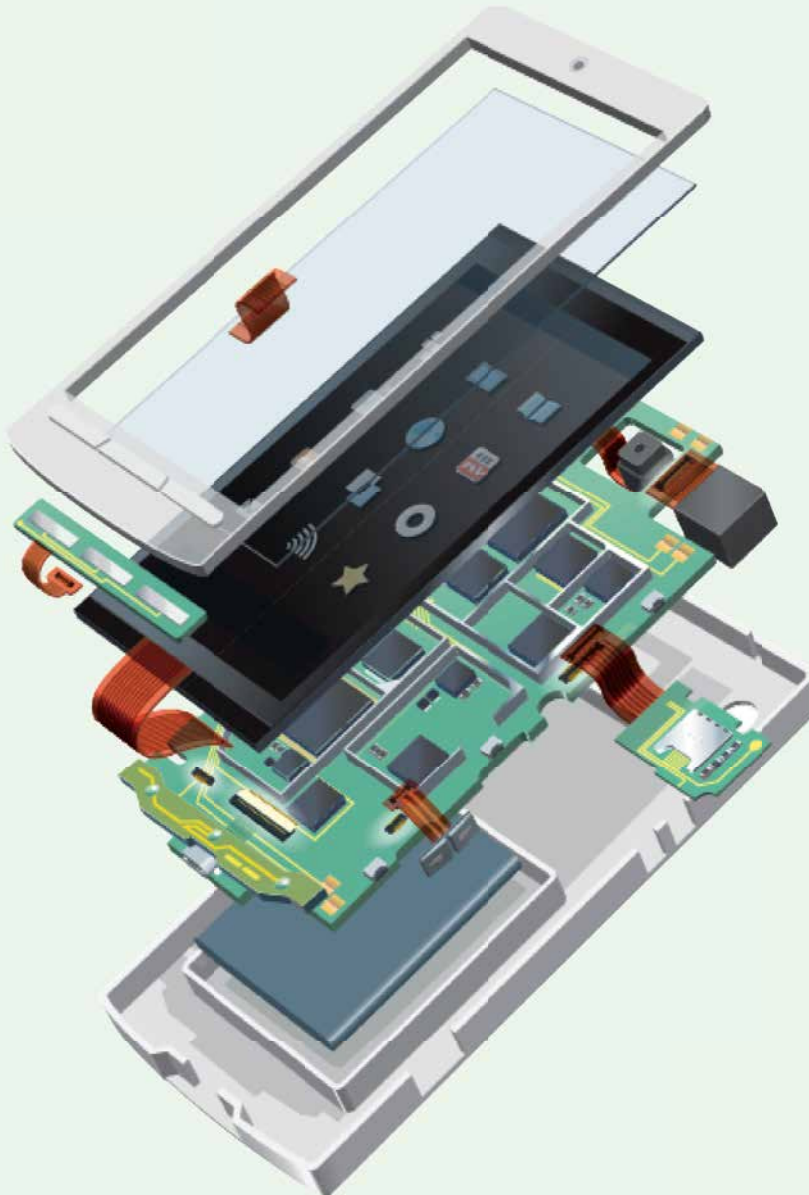
Board-to-FPC A35UH	Board-to-FPC A35P	For FPC/FFC Y5B	For FPC Y5BW
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Smartphone (for connector)



*For lineup of our light touch switches, please see our website.

■ Smartphone (for light touch switch)



Light touch switches

For power on and operation

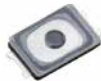
2616
SMD

EVPBB



3020
SMD

EVPAW



3417
Side-operational

EVPAT



Light touch switches

Volume Up / Down

2616
SMD

EVPBB



3020
SMD

EVPAW



3417
Side-operational

EVPAT



■ Tablet

Main camera

Board-to-FPC	Board-to-FPC	Board-to-FPC	For FPC	For FPC
A35UH	A35P	A4S	Y3B	Y2B

Touch panel

Board-to-FPC	Board-to-FPC	For FPC
A4S	A35S	Y3B

LCD

Board-to-FPC	Board-to-FPC	For FPC
A4S	A35S	Y3B

Sub camera

Board-to-FPC	Board-to-FPC	For FPC
A4S	A35S	Y3B

Battery

Board-to-FPC	Board-to-FPC	Board-to-FPC	Board-to-FPC
B02	B01	A35P	A35UH

Board

Board-to-FPC	Board-to-FPC	For FPC
A4S	A35S	Y3B

Switch

Board-to-FPC	For FPC
A4S	Y3B

Light touch switches

For power on and operation

2616 SMD	3020 SMD	3417 Side-operational
EVPBB	EVPAW	EVPAT

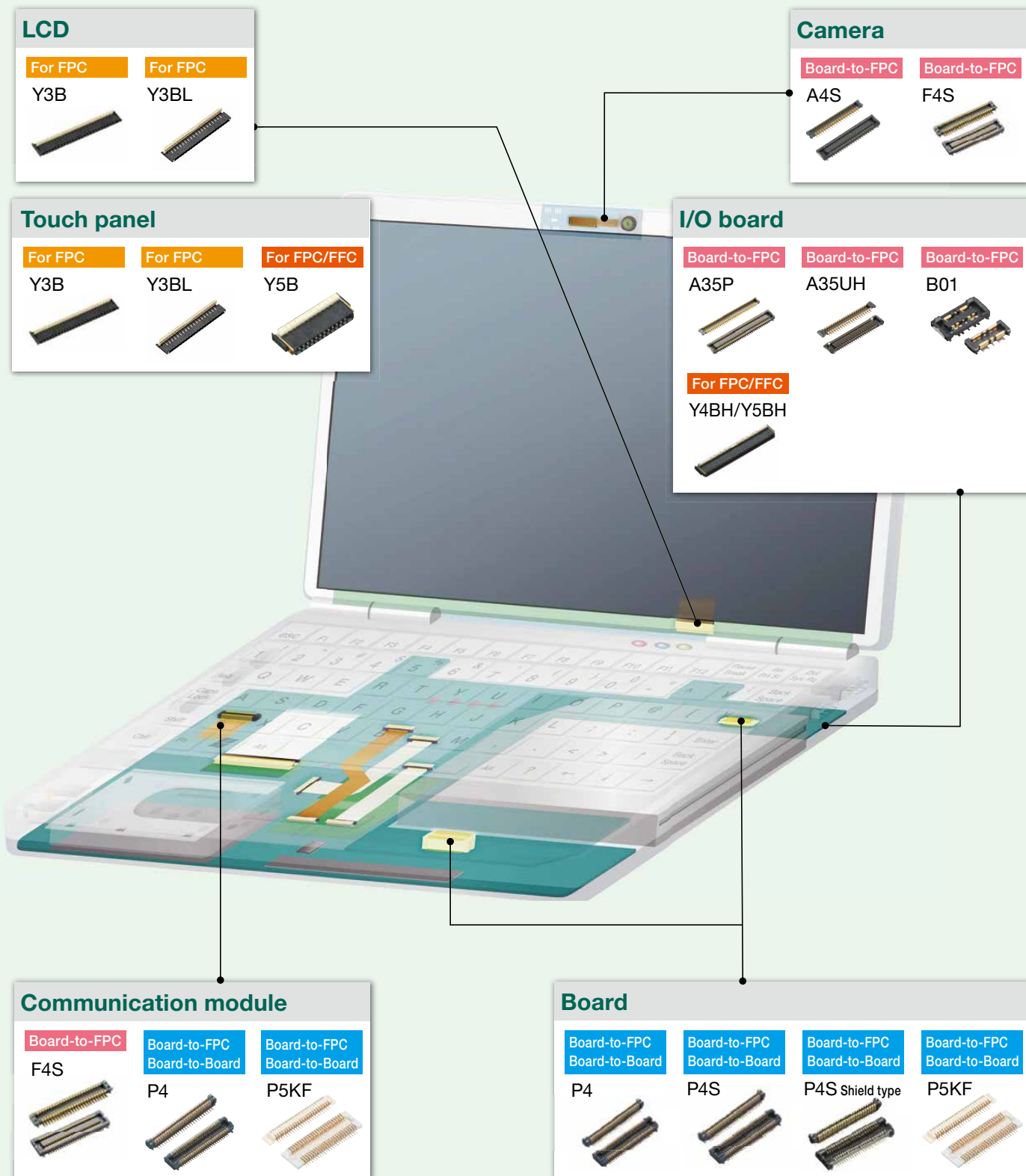
Volume Up / Down

2616 SMD	3020 SMD	3417 Side-operational
EVPBB	EVPAW	EVPAT

Communication module

Board-to-FPC	Board-to-FPC
A4S	A35S

■ Laptop computer



Please contact

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