

CONNECTORS

AUTOMOTIVE AND TRANSPORTATION APPLICATIONS



PRODUCT INTRODUCTION

KYOCERA AVX Fine Pitch Connectors offers high-reliable signal and power connectors for today's challenging automotive and transportation design needs. Kyocera offers wide variety FPC/FFC and Board to Board connectors, including add value designed product line at One-action locking and Floating Board to Board as FloXY & FloXY HS. These features of those connectors are ideal to aid in the data transfer and high reliability needs of Autonomous Driving Vehicles, ECU/DCU, Cameras, LiDAR, HUDs, Smart Mirrors, and other Automotive Infotainment and Connectivity Systems. Also offered are Branch connectors designed to copper wire and aluminum wire with fully waterproof specification.

Top Selling Points / Features

- Fine Pitch, Space-saving and Stacking Height variation design
- High reliability (XY floating, wider offset mating, secure-locking, high temperature) design
- High-speed transmission and impedance matching design
- Add value design, such as High-current & Hybrid Power-line, One-action locking, Waterproof, IATF 16949 certified

"High Reliability"



FloXY® 

 [Click for more detail](#)

Board to Board
Pitch: 0.4~0.5mm
Height: 3.5~30.0mm

"High-speed"



FloXY® HS 

 [Click for more detail](#)

Board to Board
Pitch: 0.4~0.5mm
Height: 3.5~30.0mm

"Add Value"

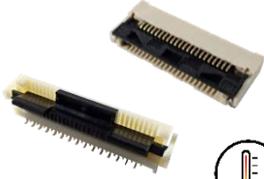


Sheltap®

 [Click for more detail](#)

Branch Connectors
IPX9K / USCAR-2

"High-temp."





 [Click for more detail](#)

FPC / FFC
Pitch: 0.5mm
Height: 2.0~6.0mm

"One-action"





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FPC / FFC
Pitch: 0.5mm
Height: 4.1 / 6.0mm

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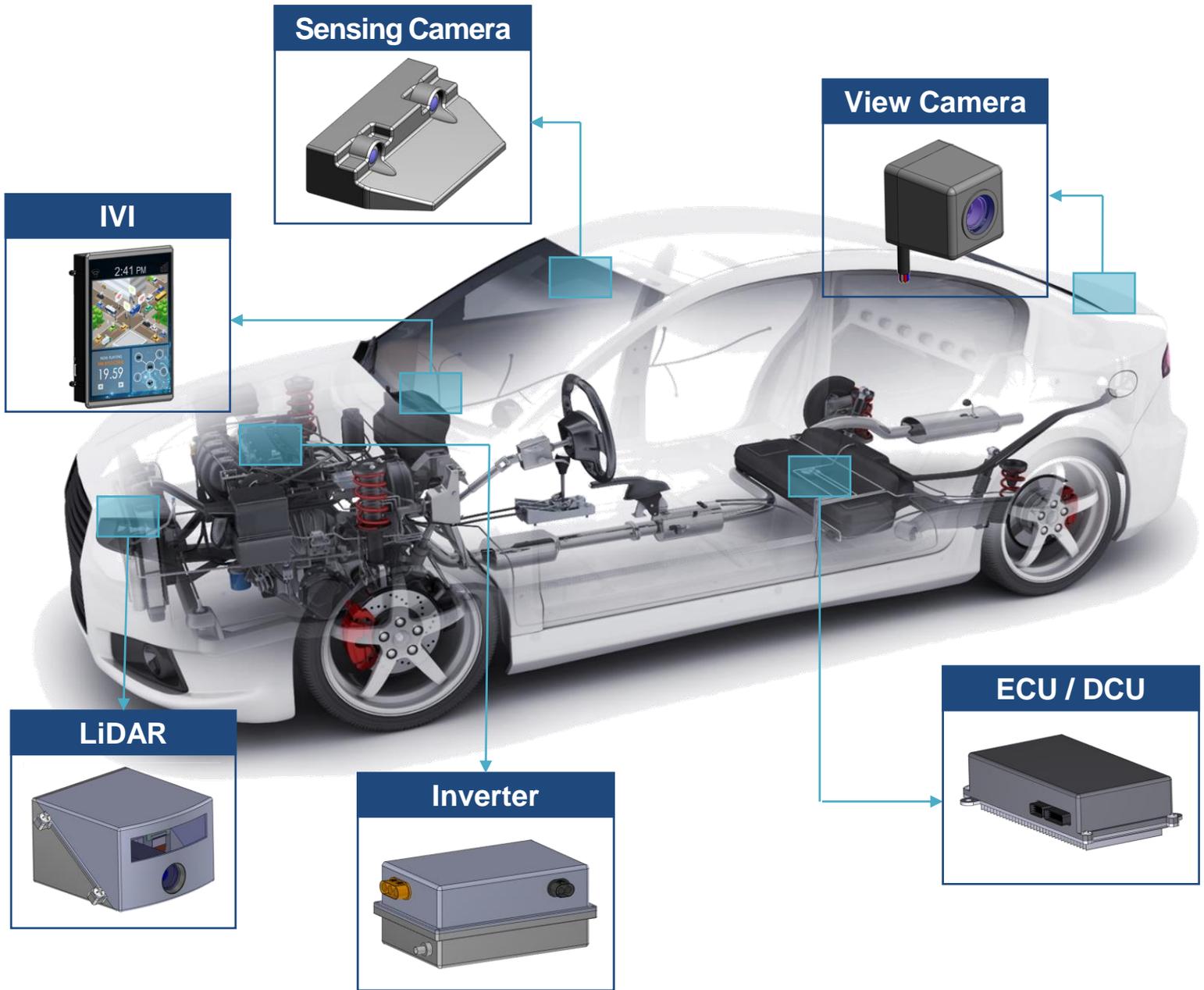
CONNECTORS

AUTOMOTIVE AND TRANSPORTATION APPLICATIONS



SCAN FOR ALL PRODUCTS

APPLICATIONS:





SCAN FOR ALL PRODUCTS

APPLICATIONS: ECU / DCU

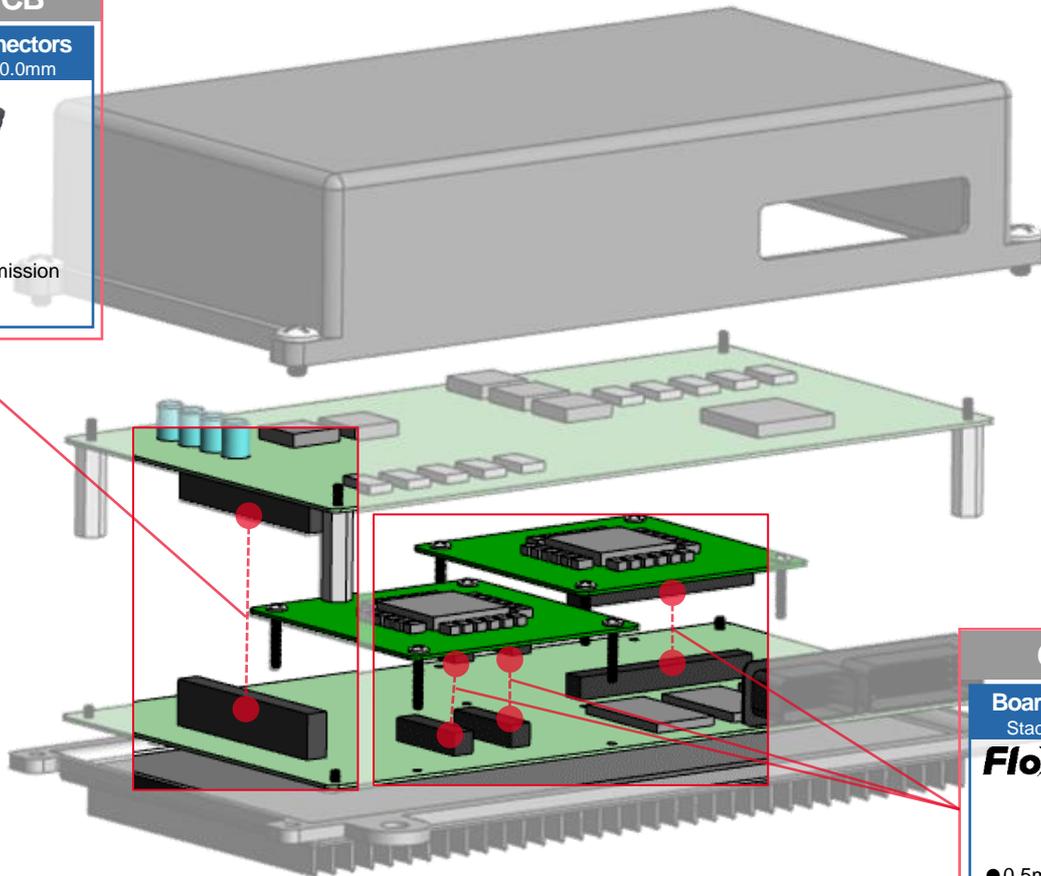
Main – Sub. PCB

Board to Board Connectors

Stacking Height: 4.0~30.0mm



● 0.5mm Pitch

5655 Lower-profile**5652** High-speed transmission**5656** 1mm Floating

CPU Module

Board to Board Connectors

Stacking Height: 4.0~30.0mm

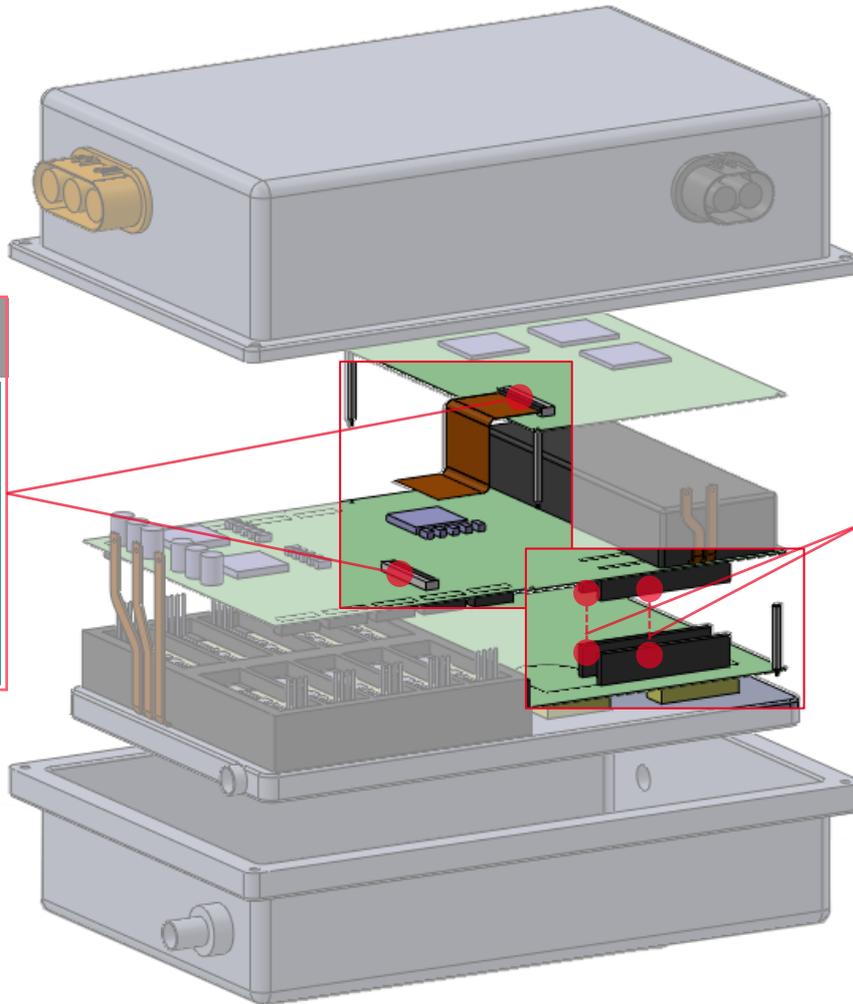


● 0.5mm Pitch

5655 Lower-profile**5652** High-speed transmission**5656** 1mm Floating

SCAN FOR ALL
PRODUCTS

APPLICATIONS: INVERTER

Control Board -
Gate Drive BoardFPC/FFC Connectors
Height: 2.0~6.0mm

- 0.5mm Pitch
- 6288** Front-lock
- 6815** Front-lock, High pin count
- 6892** AOI-compatible, Front-lock
- 6810** AOI-compatible, One-Action

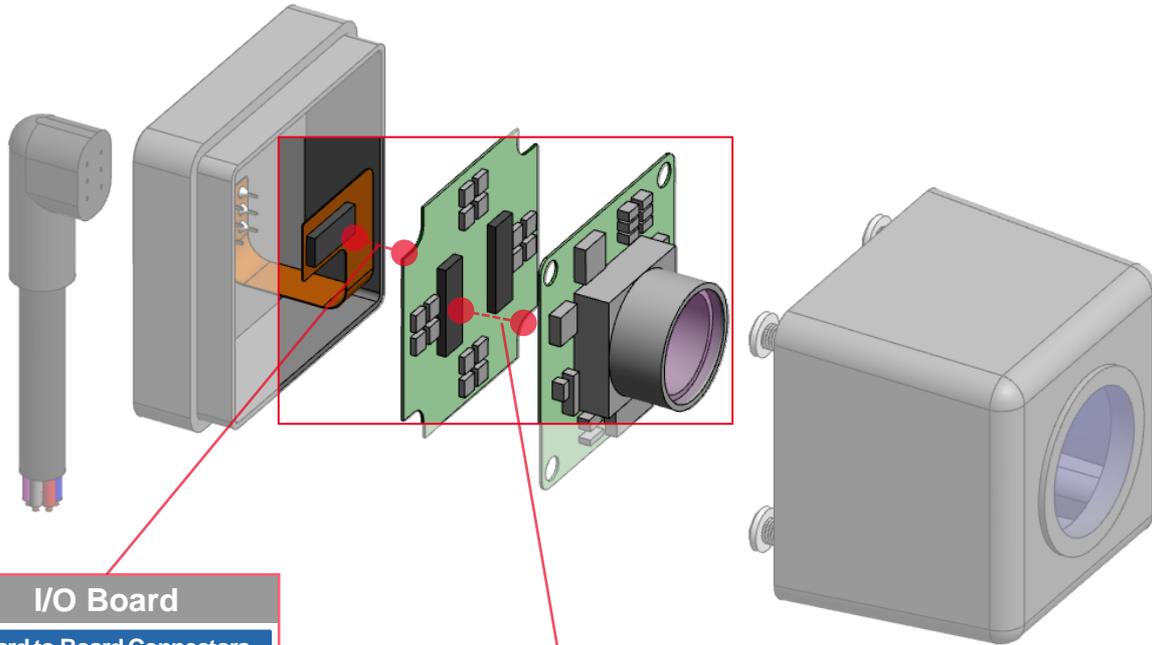
Control Board -
Gate Drive BoardBoard to Board Connectors
Stacking Height: 4.0~30.0mm**FloXY**

- 0.5mm Pitch
- 5655** Lower-profile
- 5652** High-speed transmission
- 5656** 1mm Floating



SCAN FOR ALL
PRODUCTS

APPLICATIONS: VIEW CAMERA



I/O Board

Board to Board Connectors

Stacking Height: 3.5~7.0mm

FloXY

- 0.4mm Pitch
- 8152** Lower-profile
- 0.5mm Pitch
- 5655** Lower-profile

Sensor Board

Board to Board Connectors

Stacking Height: 3.5~7.0mm

FloXY

- 0.4mm Pitch
- 8152** Lower-profile
- 0.5mm Pitch
- 5655** Lower-profile





CONNECTORS

AUTOMOTIVE AND TRANSPORTATION APPLICATIONS



SCAN FOR ALL PRODUCTS

APPLICATIONS: SENSING CAMERA

Camera Module

FPC/FFC Connectors

Height: 2.0~6.0mm



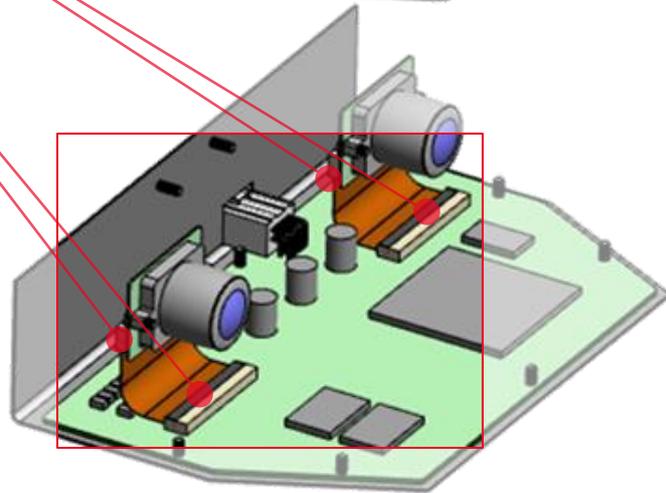
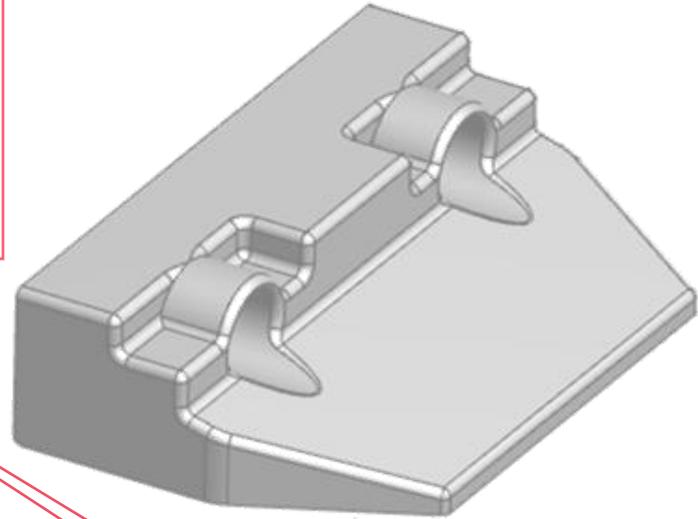
- 0.5mm Pitch
- 6288** Front-lock
- 6892** AOI-compatible, Front-lock
- 6810** AOI-compatible, One-Action

Board to Board Connectors

Stacking Height: 3.5~7.0mm

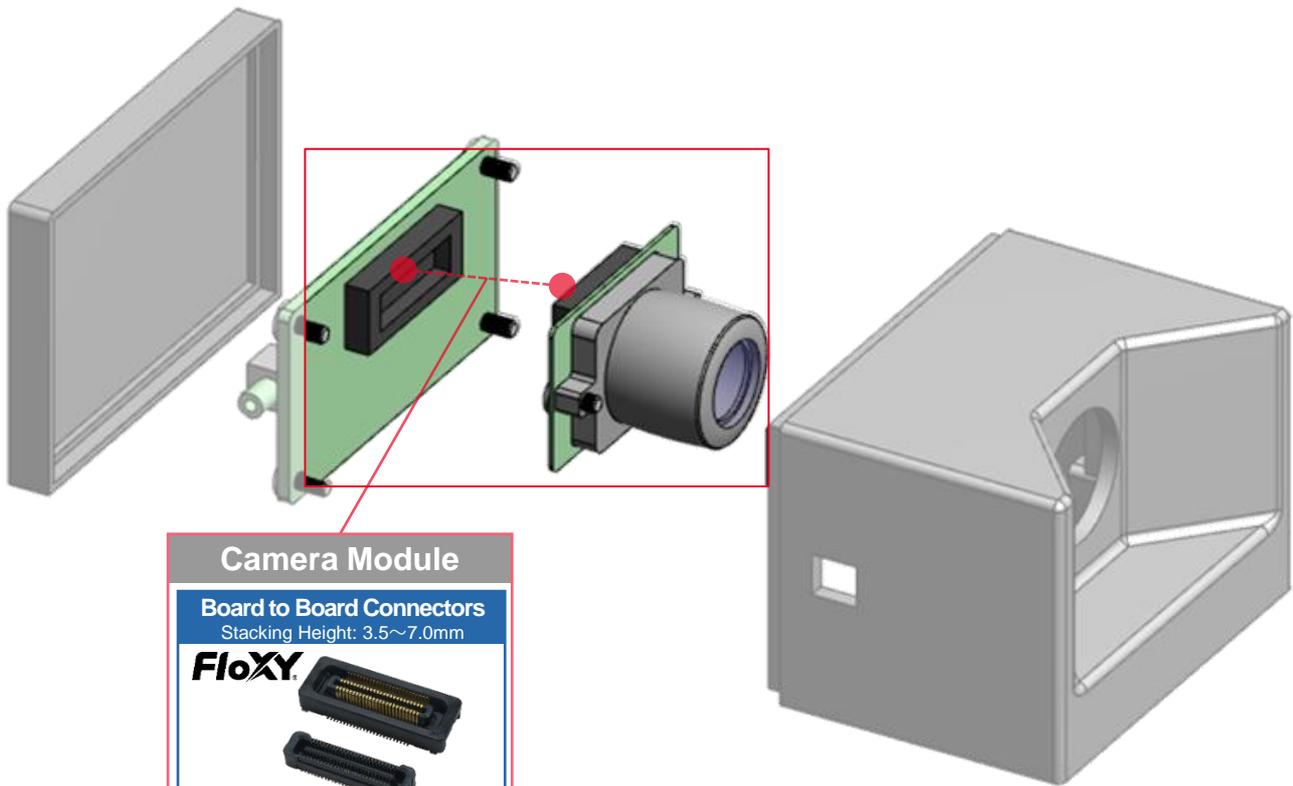


- 0.4mm Pitch
- 8152** Lower-profile
- 0.5mm Pitch
- 5655** Lower-profile



SCAN FOR ALL
PRODUCTS

APPLICATIONS: MONO SENSING CAMERA



Camera Module

Board to Board Connectors
Stacking Height: 3.5~7.0mm**FloXY**

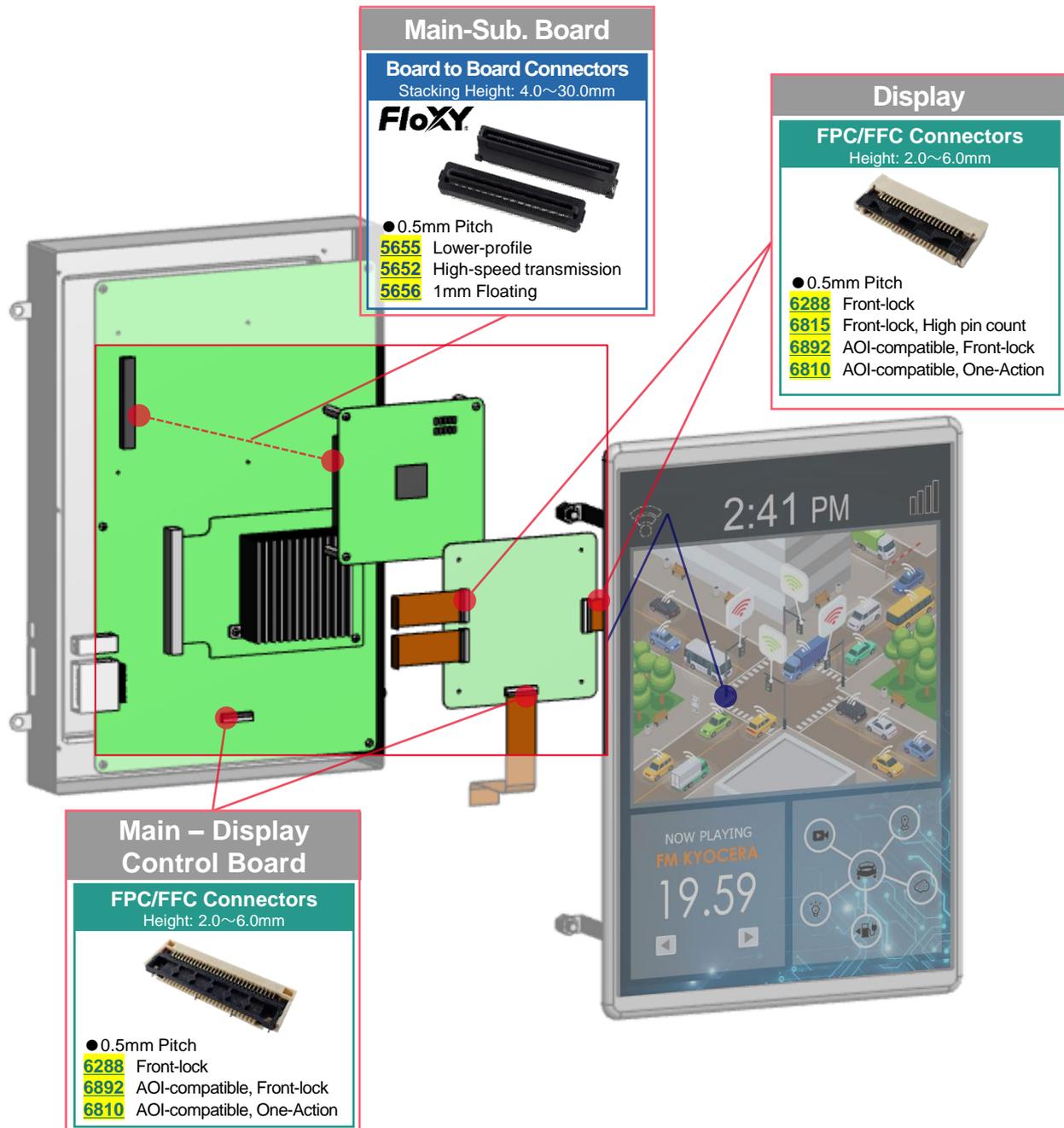
- 0.4mm Pitch
8152 Lower-profile
- 0.5mm Pitch
5655 Lower-profile





SCAN FOR ALL PRODUCTS

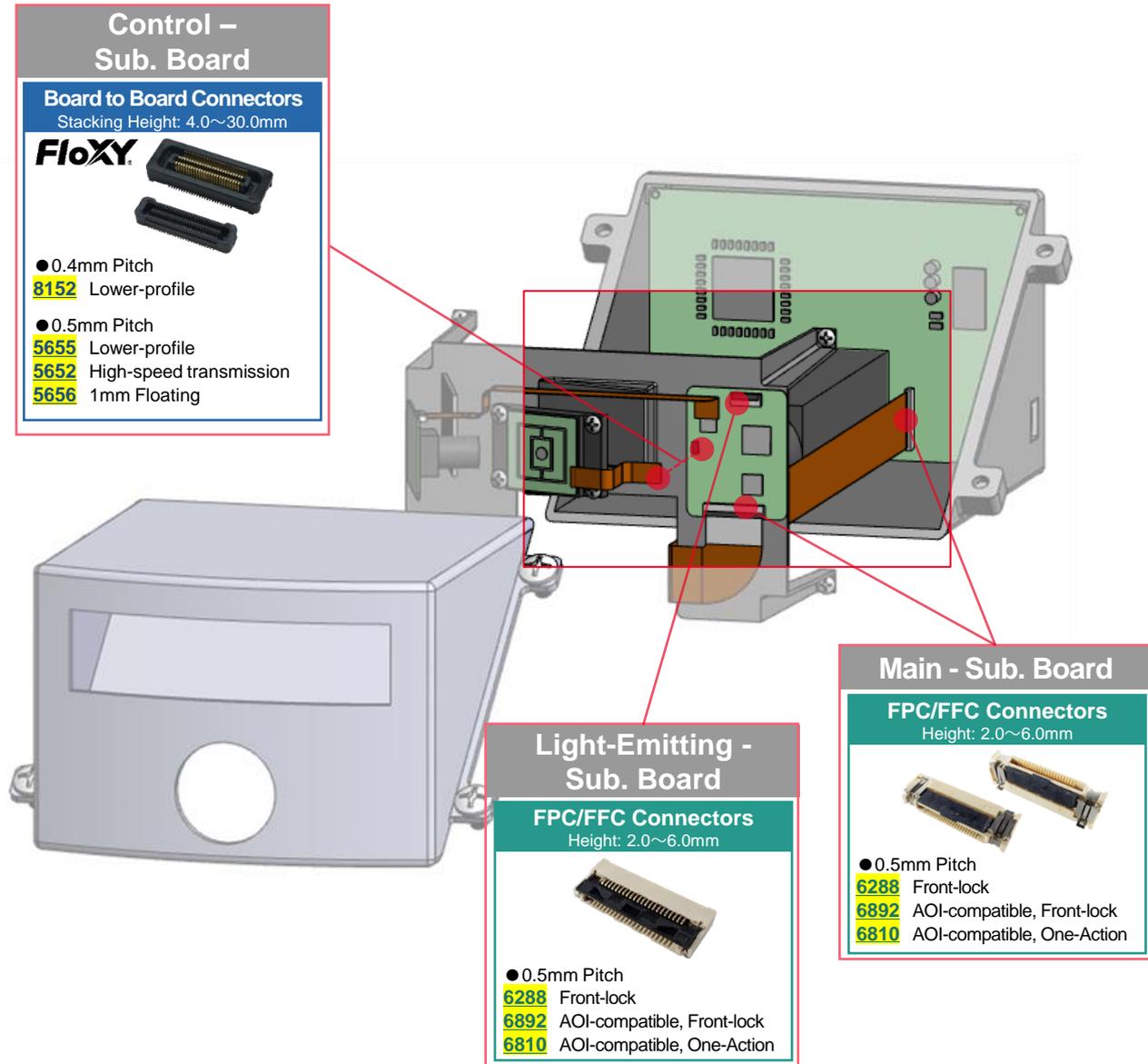
APPLICATIONS: IVI (In-Vehicle Infotainment)





SCAN FOR ALL PRODUCTS

APPLICATIONS: LiDAR





SCAN FOR ALL PRODUCTS

PRODUCT SPECIFICATIONS:

Board to Board Connectors					Wire Connectors	
Series	8152	5652	5655	5656	9215	9715
Image						
Connection Style	Parallel	Parallel	Parallel	Parallel / Vertical	-	-
Pitch (mm)	0.40	0.50	0.50	0.50	-	-
Stack. H (mm)	3.5	15.0 to 30.0	4.0 / 5.0 / 6.0 / 7.0	17.0 / 18.0 (Parallel)	Height 10.3	Height 8.8
Width (mm)	4.3	12.4	8.8	9	22.3	22.7
Floating	XY±0.4mm	XY±0.85mm	XY±0.5mm	XY±1.0mm	-	-
No. of Pos.	30	10 to 180	10 to 100	40 to 60	-	-
Current	0.3A	0.6A	0.7A	0.5A	3 to 10A	7 to 9A
Temperature Range	-40 ~ +105°C	-40 ~ +125°C	-40 ~ +125°C	-40 ~ +125°C	-40 ~ +80°C	-40 ~ +85°C
High-speed standard	PCIe Gen.3(8GT/s) MIPI D-PHY(2.5Gbps)	PCIe Gen.4(16GT/s) USB3.1 Gen.2 etc.	MIPI D-PHY (2.5Gbps)	-	-	-

FPC/FFC Connectors						
Series	6251	6806	6815	6288	6892	6810
Image						
Type	VT	RA	RA	RA	RA	RA/VT
Pitch (mm)	0.50	0.50	0.50	0.50	0.50	0.50
Height (mm)	5.45	1.75	1.90	2.00	2.20	RA: 4.04 VT: 6.00
Width (mm)	4.45	4.95	4.95	6.50	6.60	RA: 6.70 VT: 4.16
No. of Pos.	10 to 64	8 to 80	96 / 100	8 to 80	30 to 68	7 to 60
Current	0.5A	0.5A	0.5A	0.5A	0.5A	0.5A
Temperature Range	-40 ~ +105°C	-40 ~ +105°C	-40 ~ +105°C	-40 ~ +125°C	-40 ~ +125°C	-40 ~ +125°C
High-speed standard	-	V-by-One HS* (3.75Gbps)	V-by-One HS* (3.75Gbps)	-	V-by-One HS* (3.75Gbps)	-

* "V-by-One" is registered trademarks of THine Electronics, Inc.

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