1 LCD Connection



Micro Coaxial Connector **3** Module Connection(Incl. HDD)

FPC Connector (1 Piece)

FPC Connector (1 Piece)



FPC-to-Board (2 Piece)



2 Touch Panel Connection

Micro Coaxial Connector





FPC-to-Board (2 Piece)



Wire-to-Board

5 Speaker/Microphone/ **Fan Connection**



FPC Connector (1 Piece)



Wire-to-Board

6 Antenna Connection HS 5G



Miniature **RF** Connector



FPC-to-Board (2 Piece)

7 Interface Connection



I/O Connector



Hill Carlo Salar

1. LCD Connection

Micro Coaxial Connector



Type-C LVDS eDP

DF80

Space-Saving, User-Friendly Operation

Pitch: 0.5mm

Mated Height: 1.72mm Mated Depth: 5.1mm

Pin Count: 30, 40, 45, 50pos.

AWG Wire: 40-46 Discrete Wire:

32 & 36 AWG, Ø0.5mm Max. Rated Current: 0.1-0.5A



Type-C LVDS eDP MIPI

DF81

Space-Saving with Rotary Latch,

Horizontal Mating Pitch: 0.4mm

Mated Height: 0.9mm Mated Depth: 4.4mm Pin Count: 30, 40, 50pos.

AWG Wire: 36-46 Discrete Wire:

34-36 AWG, Ø0.54mm Max. Rated Current: 0.1-0.8A



LVDS

eDP



VESA Standard Horizontal Mating Pitch: 0.5mm

Mated Height: 1.0mm Mated Depth: 5.1mm Pin Count: 30, 40pos. AWG Wire: 36-44

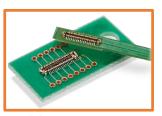
Discrete Wire: 32-36 AWG Rated Current: 0.1-0.8A





2. Touch Panel Connection

FPC Connectors (1 Piece)

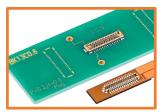


BM28

Low Profile, Space-Saving Hybrid Connector up to 5A Pitch: 0.35mm Stacking Height: 0.6mm

Depth: 1.7mm Pin Count: 6-60+2pos.

Rated Current: 5A for power



BK13

Low Height, Hybrid Connector up to 5A Pitch: 0.35mm Stacking Height: 0.6mm Depth: Plug 1.8mm

Receptacle 1.9mm Pin Count: 10-60pos. 0.3A for signal Rated Current: 5A for power Pin Count: 7-71pos.



FH58/FH58M

Space-Saving, Top/Bottom Contact Pitch: 0.2mm (FH58M: 0.25mm) Height: 0.9mm Depth: 3.1mm (FH58A: 3.4mm)

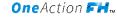
0.3A for signal (Under Development : 81pos.)

Rated Current: 0.2A



FH64MA

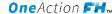
World's Lowest Profile Top Contact Pitch: 0.25mm Height: 0.5mm Depth: 3.15mm Pin Count: 5-25pos. Rated Current: 0.2A





FH62

Superior Operability (One Action) Top Contact Pitch: 0.25mm Height: 1.1mm Depth: 4.0mm Pin Count: 13-61pos. Rated Current: 0.3A





FH72

Superior Operability (One Action) Top Contact Pitch: 0.3mm Height: 0.9mm Depth: 3.5mm Pin Count: 11-31pos. (Planned Development: 7-31)

Rated Current: 0.3A





3. Module Connection

FPC Connectors (1 Piece)

OneAction FH.



FH62

Superior Operability (One Action) Top Contact Pitch: 0.25mm Height: 1.1mm Depth: 4.0mm Pin Count: 13-61pos. Rated Current: 0.3A

One Action FH.



FH72

Superior Operability (One Action) Top Contact Pitch: 0.3mm Height: 0.9mm Pin Count: 11-31pos. (Planned Development :7-31) Rated Current: 0.3A

FH



FH34

High Retention Force, Ideal Low Pin Count Top/Bottom Contact Pitch: 0.5mm Height: 1.0mm Depth: 3.8mm Pin Count: 4-50pos. Rated Current: 0.5A



TF42

Back Flip, Actuator Breakage Prevention Space-saving, **Bottom Contact** Pitch: 0.35mm Height: 0.9mm Depth: 3.0mm Pin Count: 13-24pos. Rated Current: 0.4A



TF13BA/TF13BSA

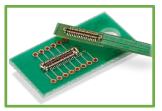
Back flip, High Retention Force **Bottom Contact** Pitch: 0.4mm Height: 0.9mm Depth: 3.0mm Pin Count: 6-20pos. Rated Current: 0.5A



TF31

FPC/FFC Connector **Bottom Contact** Pitch: 0.5/1.0mm Height: 1.75/2.0mm Depth: 5.7mm Pin Count: 4-60pos. Rated Current: 0.5A

FPC-to-Board (2 Piece)



BM28

Low Profile, Space-Saving Hybrid Connector up to 5A Pitch: 0.35mm Stacking Height: 0.6mm Depth: 1.7mm Pin Count: 6-60+2pos. Rated Current: 5A for power

0.3A for signal



DF40

Pitch: 0.4mm Depth: 3.38mm Pin Count: 10-120pos. Rated Current: 0.3A



DF12N

Wide Stacking Height Variety Wide Stacking Height Variety Pitch: 0.5mm Stacking Height: 1.5-4.0mm Stacking Height: 3.0-5.0mm Depth: 4.6mm Pin Count: 10-80pos. Rated Current: 0.3A





3. Module Connection (High Speed)

FPC-to-Board (2 Piece)



DF40G

EMI Prevention with Shield

Pitch: 0.4mm

Mated Height: 1.5/3.0/3.5mm

Depth: 3.68mm Pin Count: 10-70pos. Rated Current: 0.3A



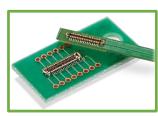
DF40

Wide Stacking Height Variety

Pitch: 0.4mm

Stacking Height: 1.5-4.0mm

Depth: 3.38mm Pin Count: 10-120pos. Rated Current: 0.3A



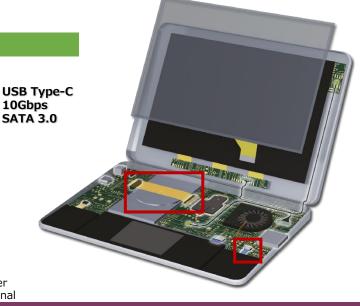
BM28

Low Profile, Space-Saving Hybrid Connector up to 5A

Pitch: 0.35mm

Stacking Height: 0.6mm Depth: 1.7mm

Pin Count: 6-60+2pos. Rated Current: 5A for Power 0.3A for Signal



FPC Connectors (1 Piece)



USB Type-C 10+Gbps SATA Gen.3 PCIe Gen.2

FH55/FH55M

10+Gbps High Speed Transmission

Bottom Contact Pitch: 0.5/0.4mm Height: 1.5mm Depth: 4.0mm

Pin Counts: 10, 22, 31, 40pos. Rated Current: 0.5/0.4A



FH34

High Retention Force, Ideal Low Pin Count Top/Bottom Contact Pitch: 0.5mm Height: 1.0mm Depth: 3.8mm

Pin Count : 4-50pos. Rated Current : 0.5A

Micro Coaxial Connector



eDP 1.3

USB Type-C

10Gbps

LVDS

DF80

Space-Saving, User-Friendly Operation

Pitch: 0.5mm

Mated Height: 1.72mm Mated Depth: 5.1mm Pin Count: 30, 40, 45, 50pos.

AWG Wire: 40-46 Discrete Wire:

32 & 36 AWG, Ø0.5mm Max. Rated Current: 0.1-0.5A



USB Type-C 10Gbps LVDS eDP 1.3

DF81

Space-Saving with Rotary Latch,

Horizontal Mating
Pitch: 0.4mm
Mated Height: 0.9mm
Mated Depth: 4.4mm
Pin Count: 30, 40, 50pos.

AWG Wire: 36-46 Discrete Wire:

34-36 AWG, Ø0.54mm Max. Rated Current : 0.1-0.8A



4. High Power Connection (Battery/DC Jack)

Wire-to-Board

SignalBee \$.



DF52

Small, High Current Capacity Pitch: 0.8mm

Mated Height: 1.75mm

Depth: 4.10mm Pin Count: 2-20pos AWG Wire: 28-32

Rated Current: 0.8-2.5A

SignalBee \$.



DF53

Small, Low Profile Pitch: 0.6mm Mated Height: 1.45mm Depth: 3.55mm

Pin Counts: 14pos. AWG Wire: 32

Rated Current: 1.3A Max.



DF59

3Way System Connector

Pitch: 2.0mm Mated Height: 2.48mm Mated Depth: 8.15mm

Pin Count: 2-4pos.

AWG Wire: 22 Rated Current: 3A



DF65

Small, High Current Capacity

Pitch: 1.7mm

Mated Height: 1.8mm Mated Depth: 6.3mm Pin Count: 3-7pos. AWG Wire: 24-28

Rated Current: 2-4A



DF61

Low Profile, Snap Lock Design

Pitch: 2.2mm

Mated Height: 2.38mm Mated Depth: 7.35mm Pin Count: 2pos.

AWG Wire: 22-28 Rated Current: 3-5A



DF61Y

Small Size, Snap Lock Design

Pitch: 2.2mm

Mated Height: 2.0mm Mated Depth: 7.35mm Pin Count: 2pos. AWG Wire: 24-28

Rated Current: 3-4A.

FPC-to-Board (2 Piece)

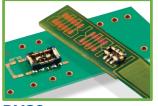


BM25

Ideal for Quick Charge **Power Connector** Pitch: 0.4mm

Mated Height: 0.7mm Mated Depth: 2.6mm Pin Count: 4+2pos.

Rated Current: 10A for power



BM29

Ultra Small Hybrid Connector Pitch: 0.35mm Mated Height: 0.6mm Depth: 1.5mm Pin Count: 2-24 + 2pos. Rated Current: 3A for power

0.3A for signal





5. Speaker/Microphone/Fan Connection

Wire-to-Board



DF57H

Low Profile, Snap Lock Design

Pitch: 1.2mm

Mated Height: 1.4mm Depth: 4.65mm Pin Count: 2-6pos. AWG Wire: 28-34

Rated Current: 0.5-3A



DF52

Small, High Current Capacity Pitch: 0.8mm

Mated Height: 1.75mm Depth: 4.10mm

Pin Count: 2-20pos. AWG Wire: 28-32

Rated Current: 0.8-2.5A



DF53

Small, Low Profile Pitch: 0.6mm

AWG Wire: 32

Mated Height: 1.45mm Depth: 3.55mm Pin Counts: 14pos.

Rated Current: 1.3A Max.



DF65

Small, High Current Capacity

Pitch: 1.7mm

Mated Height: 1.8mm Mated Depth: 6.3mm Pin Count: 3-7pos. AWG Wire: 24-28 Rated Current: 2-4A



FPC Connectors (1 Piece)

OneAction FH.



FH62

Superior Operability (One Action) Top Contact Pitch: 0.25mm Height: 1.1mm Depth: 4.0mm Pin Count: 13-61pos. Rated Current: 0.3A





FH72

Superior Operability (One Action) Top Contact Pitch: 0.3mm Height: 0.9mm Depth: 3.5mm Pin Count: 11-31pos.

Rated Current: 0.3A



FH34

High Retention Force, Ideal Low Pin Count Top/Bottom Contact Pitch: 0.5mm Height: 1.0mm Depth: 3.8mm Pin Count: 4-50pos. Rated Current: 0.5A



TF31

FPC/FFC Connector Pitch: 0.5/1.0mm Height: 1.75/2.0mm Depth: 5.7mm Pin Count: 4-60pos. Rated Current: 0.5A



TF13BA/TF13BSA

Back Flip, Space-Saving, High Retention Force Bottom Contact Pitch: 0.4mm Height: 0.9mm Depth: 3.0mm Pin Count: 6-20pos. Rated Current: 0.5A

6. Antenna Connection (5G/UWB/Wi-Fi/Bluetooth)

Miniature RF Connector



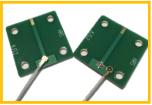
X.FL

Superior High Frequency Mated Height: 1.0mm Max. Frequency: 0 to 6GHz V.S.W.R.: 1.4 Max.



X.FL (Low Loss Type) K.FL2

WiGig Standard Mated Height: 1.3mm Max. Frequency: 0 to 12GHz V.S.W.R.: 1.7 Max. Intel WiGig Recommended



Wi-Fi Standard Mated Height: 1.2mm Max. Frequency: 0 to 8GHz V.S.W.R.: 1.6 Max.

FPC-to-Board (2 Piece)



BM46

Multi-RF Board-to-Board Connector Pitch: 0.35mm Stacking Height: 0.6mm Frequency: 0 to 12GHz V.S.W.R.: 1.6 Max.



BM56G

Multi-RF Board-to-Board Connector Pitch: 0.35mm Stacking Height: 0.6mm Frequency: 0 to 20GHz V.S.W.R.: 1.5 Max.



W.FL2

Small-Sized Connector Mated Height: 1.3mm Max. Frequency: 0 to 6GHz V.S.W.R.: 1.5 Max.



U.FL

Widely Used RF Connector Mated Height: 2.0mm Max. or 2.4-2.5 Max.

Frequency: 0 to 6GHz V.S.W.R.: 1.5 Max.



C.FL

Micro RF Connector Mated Height: 0.92mm Frequency: 0 to 30GHz V.S.W.R.: 1.6 Max.





7. Interface Connection

I/O Connector





CX90M-16P

USB Type-C Connector USB 2.0, Supports 6A Mid-Mount, 16pos.





LX 0.5mm Pitch Ultra-Low Profile 12, 16, 20pos.



0.5mm Pitch, Space-Saving 10, 18, 24, 36pos.



CX90B-16P

USB Type-C Connector USB2.0, 5A On-board, 16pos.





ZX Micro-USB2.0 Connector 12, 16, 20pos.



CX90MWD2G-24P

Waterproof Type-C Connector USB Type-C Connector USB3.2 Gen1, 5A IPX8, 24pos., Mid-Mount





ZX62W Micro-USB2.0 Overmolded Type Splash Resistant Receptacle



USB3.2 Gen1 Mid-Mount, 24pos. Space-Saving



CX60

USB Type-C Connector USB4 Gen2 Space-Saving, Short Circuit Prevention Design



ZX360 Micro-USB3.0 Connector









DSC/DVC

Hirose **Customer Electronics Solutions Please Click Each Picture**







Gaming **Devices**









Smart Home

