

# E-TUBE PROJECT Compatibility Chart

When any device which is not shown in E-TUBE PROJECT compatibility chart is connected, all components don't work.  
 Confirm the E-TUBE PROJECT compatibility chart.  
**Di2 with BT-DN300**

**Remarks**  
 New models: **XX-####**  
 Discontinued: **XX-####**

## Battery

1 unit from this group

Internal Battery  
BT-DN300

## Switch unit

Max. 8 units  
 (6 wired units and 2 wireless units)  
 except satellite shifter from this group \*1

### Wireless only spec.

[ST-RX825-L](#)  
[ST-RX825-R](#)

ST-R7170-L  
 ST-R7170-R

Satellite shifter  
 (option)  
 SW-RS801-S  
 SW-RS801-T  
 SW-RS801-E

### Wireless or SD300 wired spec.

ST-R9270-L ST-R9270-R  
 ST-R8170-L ST-R8170-R

Satellite shifter  
 (option)  
 SW-RS801-S  
 SW-RS801-T  
 SW-RS801-E

### SD300 wired spec.

ST-R9250-L ST-R9250-R  
 ST-R8150-L ST-R8150-R

Satellite shifter  
 (option)  
 SW-RS801-S  
 SW-RS801-T  
 SW-RS801-E

SW-M8150-R  
 SW-M8150-IR

### SD50 wired spec. \*2

ST-R9160-L ST-R9160-R  
 ST-R9180-L ST-R9180-R  
 ST-R8060-L ST-R8060-R  
 SW-R9150  
 SW-R9160

## Rear shifting unit

1 unit from this group

12-speed

RD-R9250

RD-R8150

RD-R7150

[RD-RX825](#)

## Front shifting unit

1 unit from this group

FD-R9250

FD-R8150

FD-R7150

[FD-RX825](#)

## PC linkage device

SM-PCE02

### Limitation of function with BT-DN300 ■■■■■■■■

- \*1 The number of connectable wireless units is limited as follows:  
 - DUAL CONTROL LEVER: ST-R max. one unit, ST-L max. one unit
- \*2 EW-AD305 is needed.

**Di2 with BM-DN100 / BT-DN110**

- **SM-BTR1** is not displayed on E-TUBE PROJECT (BM-DN100 is displayed)
- BT-DN110-A is displayed as BT-DN110 on E-TUBE PROJECT

**Remarks**  
 New models: **XX-####**  
 Discontinued: **XX-####**

**Battery (w/ Battery mount)**  
 1 unit from this group

**System information display or junction [A]**  
 1 unit from this group

**Switch unit**  
 Max. 6 unit from this group

**Rear shifting unit**  
 1 unit from this group

**Front shifting unit**  
 1 unit from this group

**Wireless unit**  
 1 unit from this group

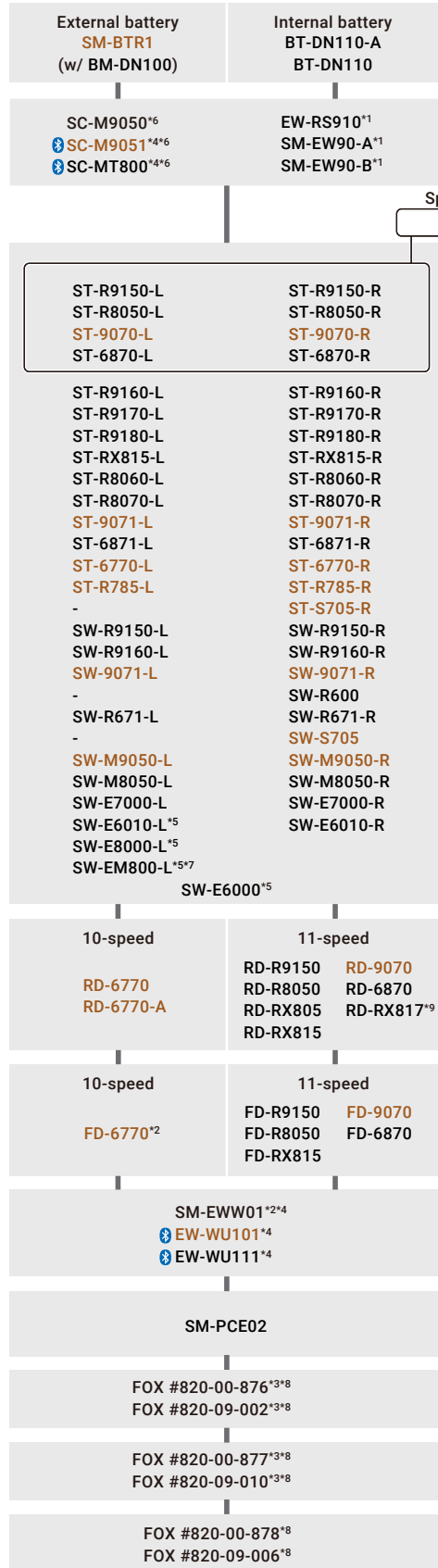
**PC linkage device**

**Front fork suspension**

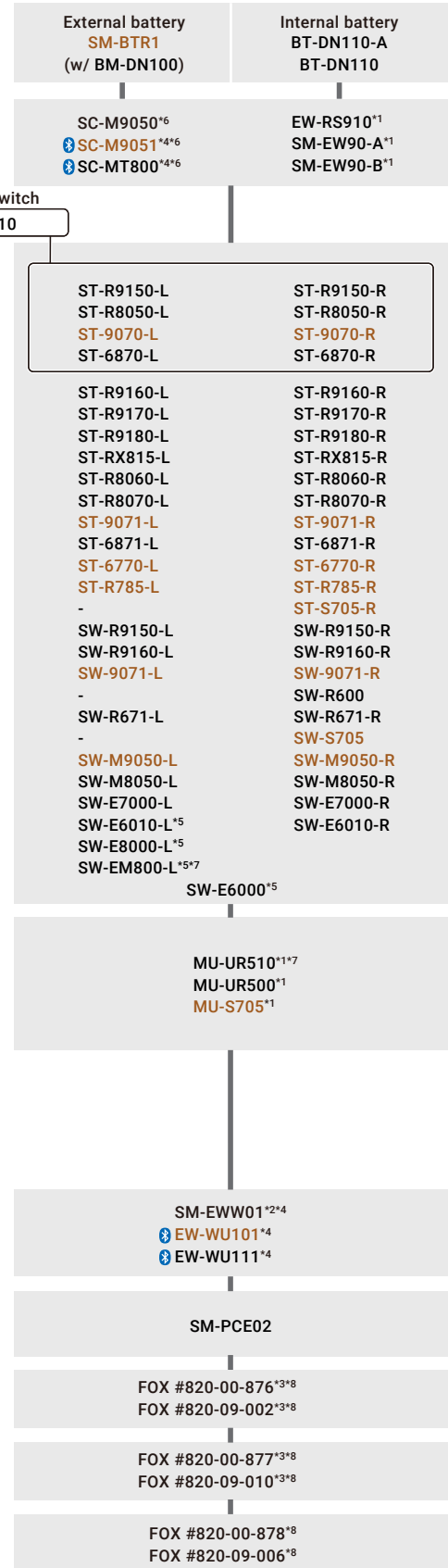
**Rear suspension**

**Suspension control switch**

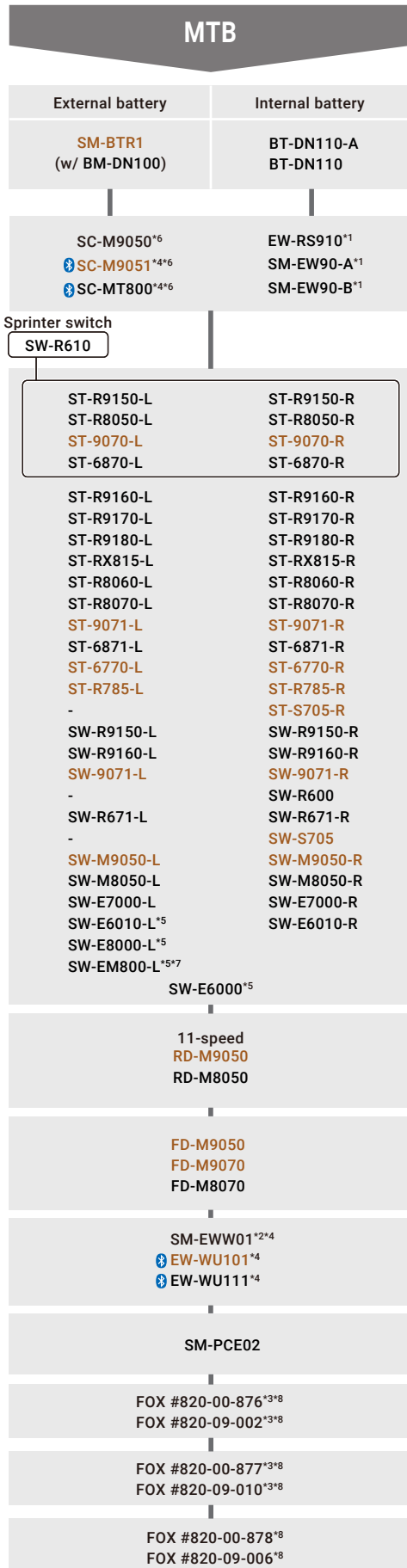
**ROAD, GRAVEL**



**LIFESTYLE**



Remarks  
 New models: [XX-####](#)  
 Discontinued: [XX-####](#)



**Battery  
(w/ Battery mount)**  
1 unit from this group

**System information  
display or junction [A]**  
1 unit from this group

**Shift switch**  
Max. 6 unit from this group

**Rear shifting unit**  
1 unit from this group

**Front shifting unit**  
1 unit from this group

**Wireless unit**  
1 unit from this group

**PC linkage device**

**Front fork suspension**

**Rear suspension**

**Suspension control  
switch**

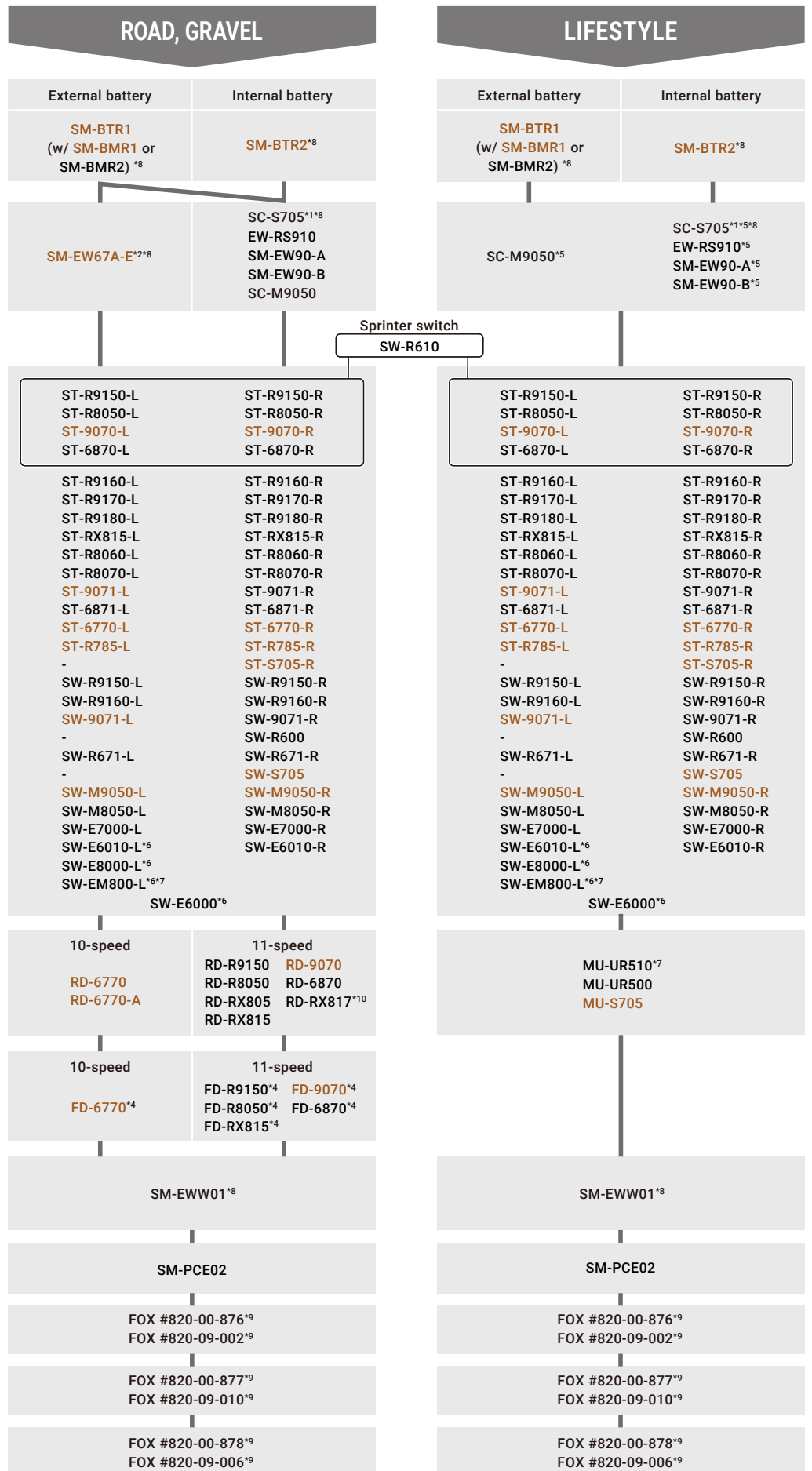
**Limitation of function with BM-DN100 / BT-DN110 ■■■■■■■■■■**

- \*1 Shifting adjustment mode for **MU-S705**, MU-UR500 and MU-UR510 is not supported (need E-TUBE PROJECT to adjust)
- \*2 Not supported by E-TUBE PROJECT Cyclist
- \*3 A designated control switch and/or the combination **SW-M9050**/SW-M8050-L with SC-M9050/**SC-M9051**/SC-MT800 is required to operate
- \*4 The system accepts just 1 unit with wireless chip (doesn't work if plural units with wireless chip are connected)
- \*5 Need to change switch setting by E-TUBE PROJECT
- \*6 SC-M9050, **SC-M9051** or SC-MT800 is required for SYNCHRONIZED SHIFT in MTB category
- \*7 This unit has SD300 port, and needs EW-AD305 for connection with SD50 port unit
- \*8 Only supported by E-TUBE PROJECT Cyclist
- \*9 For front single models only. Cannot be used in combination with a front derailleur.

**Di2 with SM-BMR1 / SM-BMR2 / SM-BTR2**

SM-BTR1 is not displayed on E-TUBE PROJECT (SM-BMR1 or SM-BMR2 is displayed)

Remarks  
 New models: **XX-####**  
 Discontinued: **XX-####**



**Battery (w/ Battery mount)**  
1 unit from this group

**System information display or junction [A]**  
1 unit from this group

**Switch unit**  
Max. 6 unit from this group

**Rear shifting unit**  
1 unit from this group

**Front shifting unit**  
1 unit from this group

**Wireless unit**  
1 unit from this group

**PC linkage device**

**Front fork suspension**

**Rear suspension**

**Suspension control switch**

Remarks  
 New models: [XX-####](#)  
 Discontinued: [XX-####](#)

**MTB**

**Battery (w/ Battery mount)**  
 1 unit from this group

External battery	Internal battery
SM-BTR1 (w/ SM-BMR1 or SM-BMR2) *8	SM-BTR2*8

**System information display or junction [A]**  
 1 unit from this group

SC-S705*11*8 SC-M9050*3	EW-RS910 SM-EW90-A SM-EW90-B
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Sprinter switch  
 SW-R610

**Switch unit**  
 Max. 6 unit from this group

ST-R9150-L ST-R8050-L ST-9070-L ST-6870-L	ST-R9150-R ST-R8050-R ST-9070-R ST-6870-R
ST-R9160-L ST-R9170-L ST-R9180-L ST-RX815-L ST-R8060-L ST-R8070-L ST-9071-L ST-6871-L ST-6770-L ST-R785-L - SW-R9150-L SW-R9160-L SW-9071-L - SW-R671-L - SW-M9050-L SW-M8050-L SW-E7000-L SW-E6010-L*6 SW-E8000-L*6 SW-EM800-L*6*7	ST-R9160-R ST-R9170-R ST-R9180-R ST-RX815-R ST-R8060-R ST-R8070-R ST-9071-R ST-6871-R ST-6770-R ST-R785-R ST-S705-R SW-R9150-R SW-R9160-R SW-9071-R SW-R600 SW-R671-R SW-S705 SW-M9050-R SW-M8050-R SW-E7000-R SW-E6010-R
SW-E6000*6	

**Rear shifting unit**  
 1 unit from this group

11-speed RD-M9050 RD-M8050
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**Front shifting unit**  
 1 unit from this group

FD-M9050 FD-M9070 FD-M8070
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**Wireless unit**  
 1 unit from this group

SM-EWW01*6
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**PC linkage device**

SM-PCE02
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**Front fork suspension**

FOX #820-00-876*9 FOX #820-09-002*9
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**Rear suspension**

FOX #820-00-877*9 FOX #820-09-010*9
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**Suspension control switch**

FOX #820-00-878*9 FOX #820-09-006*9
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Limitation of function with **SM-BMR1** / **SM-BMR2** / **SM-BTR2** ■■■■■■■■■■

- \*1 SC-S705
  - Front derailleur position will not appear on display.
  - Recovery from Rear derailleur protection function is not available.
  - Front / Rear derailleur adjustment mode is not available. Use E-TUBE PROJECT software.
  - SC-S705 has only 1 SD50 port for ST / SW.
  - SC-S705 may not turn on the display by front shift switch.
- \*2 SM-BCR2 requires any device which has charging port.  
**SM-EW67-A-E** (Junction [A]) is not compatible with SM-BCR2 and **SM-BTR2**.
- \*3 SC-M9050 is required for SYNCHRONIZED SHIFT in case with MTB-type Rear Derailleur
- \*4 SYNCHRONIZED SHIFT is not available with Road-type Rear Derailleur
- \*5 Shifting adjustment mode for **MU-S705**, MU-UR500 and MU-UR510 is not supported (need E-TUBE PROJECT to adjust)
- \*6 Need to change switch setting by E-TUBE PROJECT
- \*7 This unit has SD300 port, and needs EW-AD305 for connection with SD50 port unit
- \*8 Not supported by E-TUBE PROJECT Cyclist
- \*9 Only supported by E-TUBE PROJECT Cyclist
- \*10 For front single models only. Cannot be used in combination with a front derailleur.

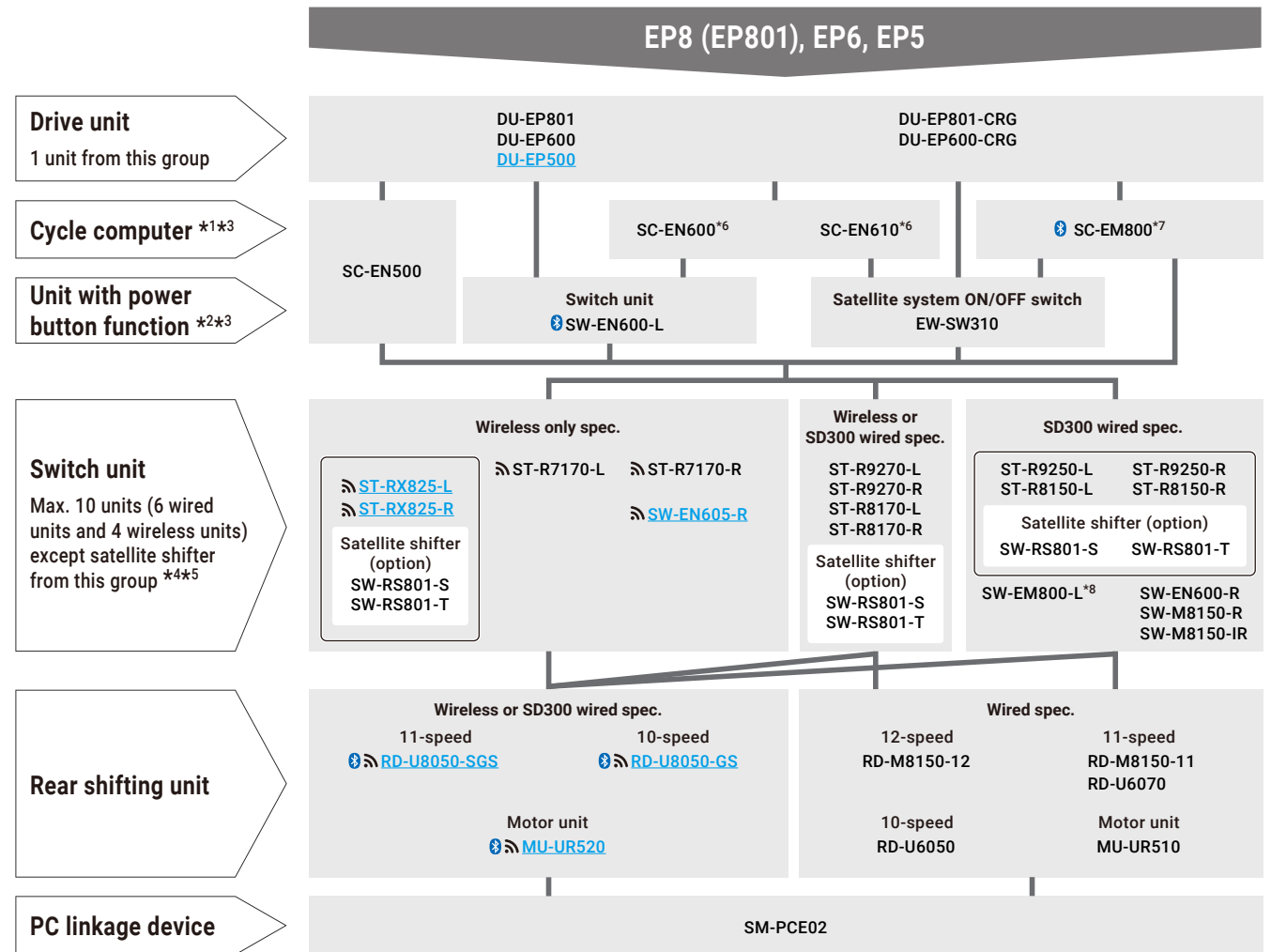
## 2nd generation (Gen.2) battery management system

This is a compatibility table when using the following batteries.

- SHIMANO E-BIKE SYSTEMS Gen.2 battery
- Battery with hardware and firmware compatible with Gen.2 made by partner manufacturers.

\* Gen.2 battery management system is not compatible with a battery with hardware and firmware compatible with conventional system made by partner manufacturers.

Remarks  
 New models: **XX-####**  
 Discontinued: **XX-####**



### Limitation of function ■■■■■■■■

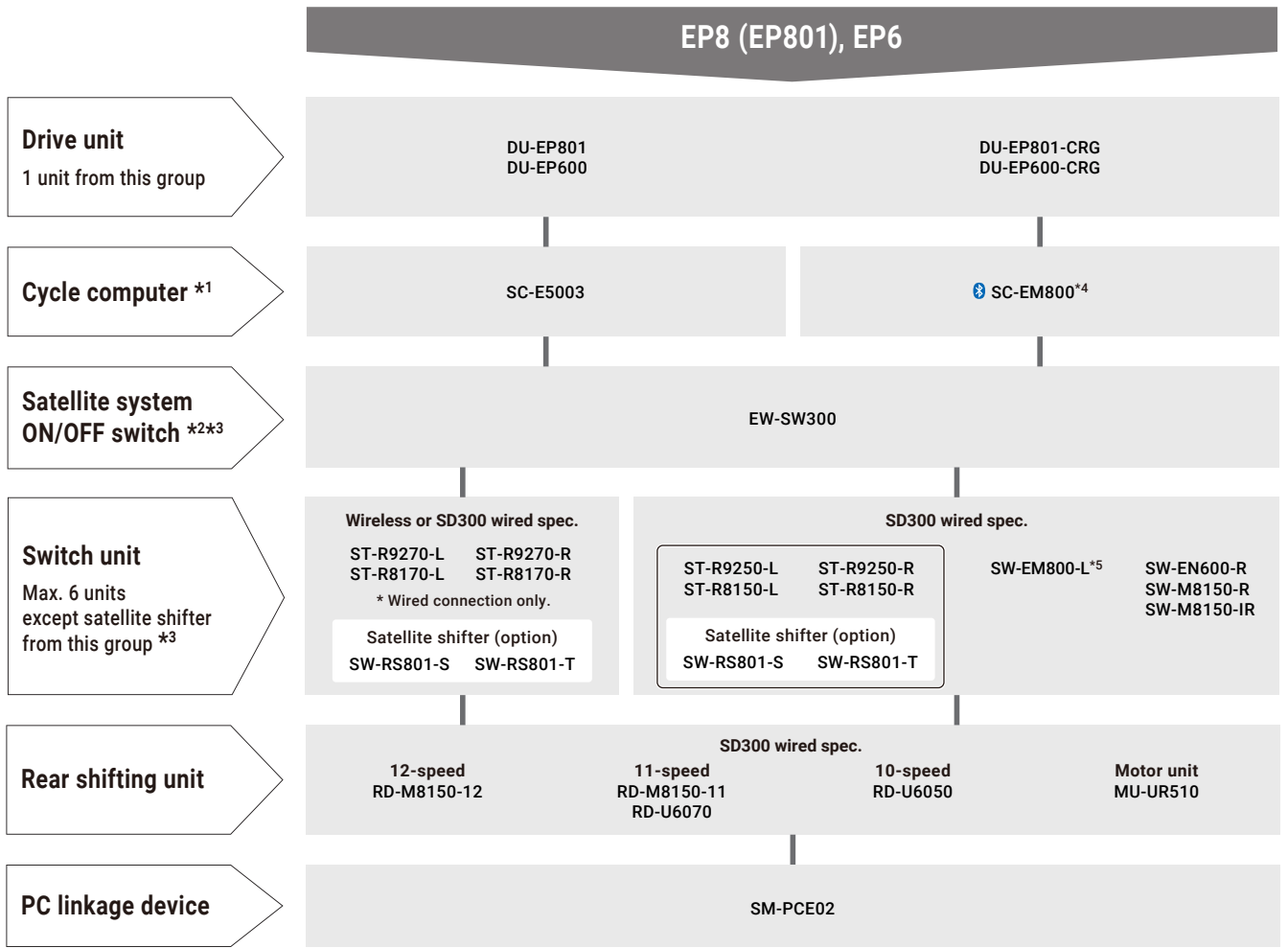
- \*1 When system has unit with power button function, cycle computer isn't mandatory.
- \*2 When the cycle computer, switch unit, and other units has power ON / OFF function, the unit with power button function isn't mandatory.
- \*3 When system has 3rd party CAN cycle computer, SHIMANO cycle computer and the unit with power button function isn't mandatory.
- \*4 Switch units are defined by model no. [SW], [ST], and [EW-SW] in this chart.
- \*5 The number of connectable wireless units is limited as follows:
  - DUAL CONTROL LEVER: ST-R max. one unit, ST-L max. one unit
  - Switch unit: maximum of one SW-R/IR
- \*6 Switch unit is mandatory for assist control.
- \*7 When drive unit (US class 3) is connected, cycle computer can displays main screen (speed and assist bar) only.
- \*8 Need to change switch setting by E-TUBE PROJECT to use as shift switch.



**1st generation battery management system for partner manufacturers' battery**

\* This is a compatibility table when using a battery made by a partner manufacturer that ensures compatibility only by updating the firmware.

Remarks  
 New models: [XX-####](#)  
 Discontinued: [XX-####](#)



**Limitation of function** ■■■■■■■■

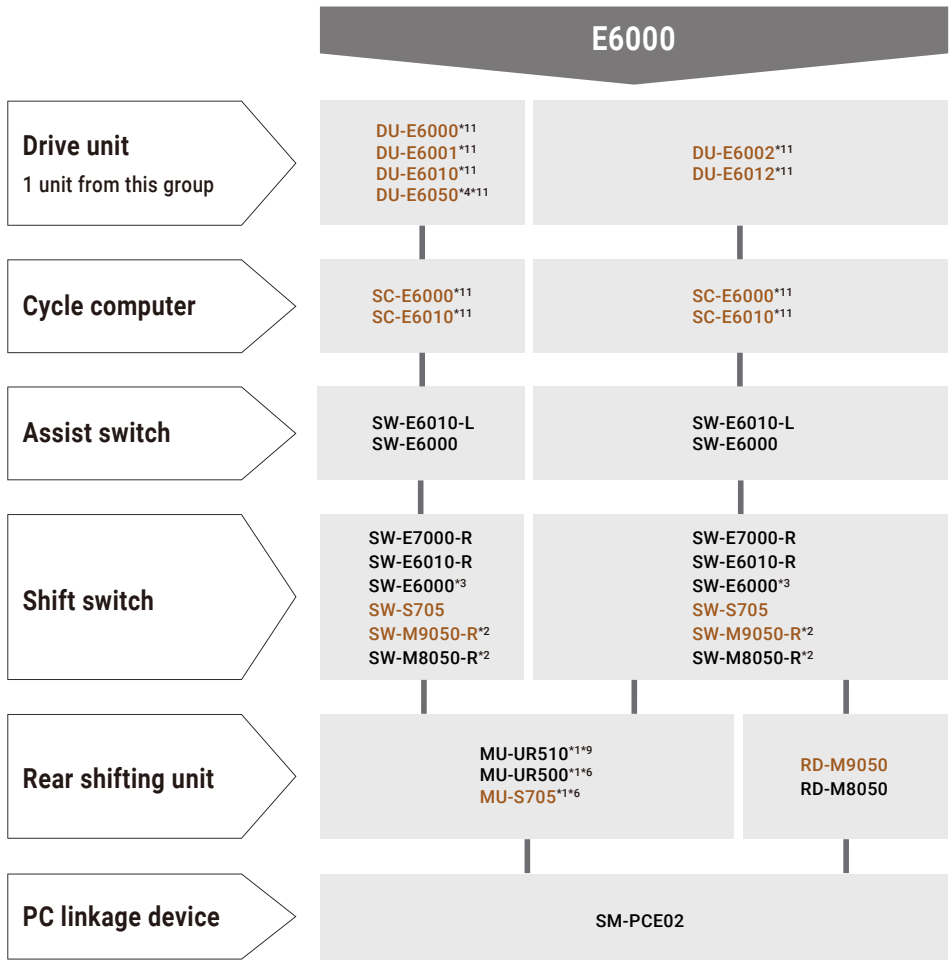
- \*1 Cycle computer is mandatory.
- \*2 When power on/off function on other unit, satellite power on/off switch isn't mandatory.
- \*3 Switch units are defined by model no. [SW], [ST], and [EW-SW] in this chart.
- \*4 When drive unit (US class 3) is connected, cycle computer can displays main screen (speed and assist bar) only.
- \*5 Need to change switch setting by E-TUBE PROJECT to use as shift switch.

**1st generation battery management system**

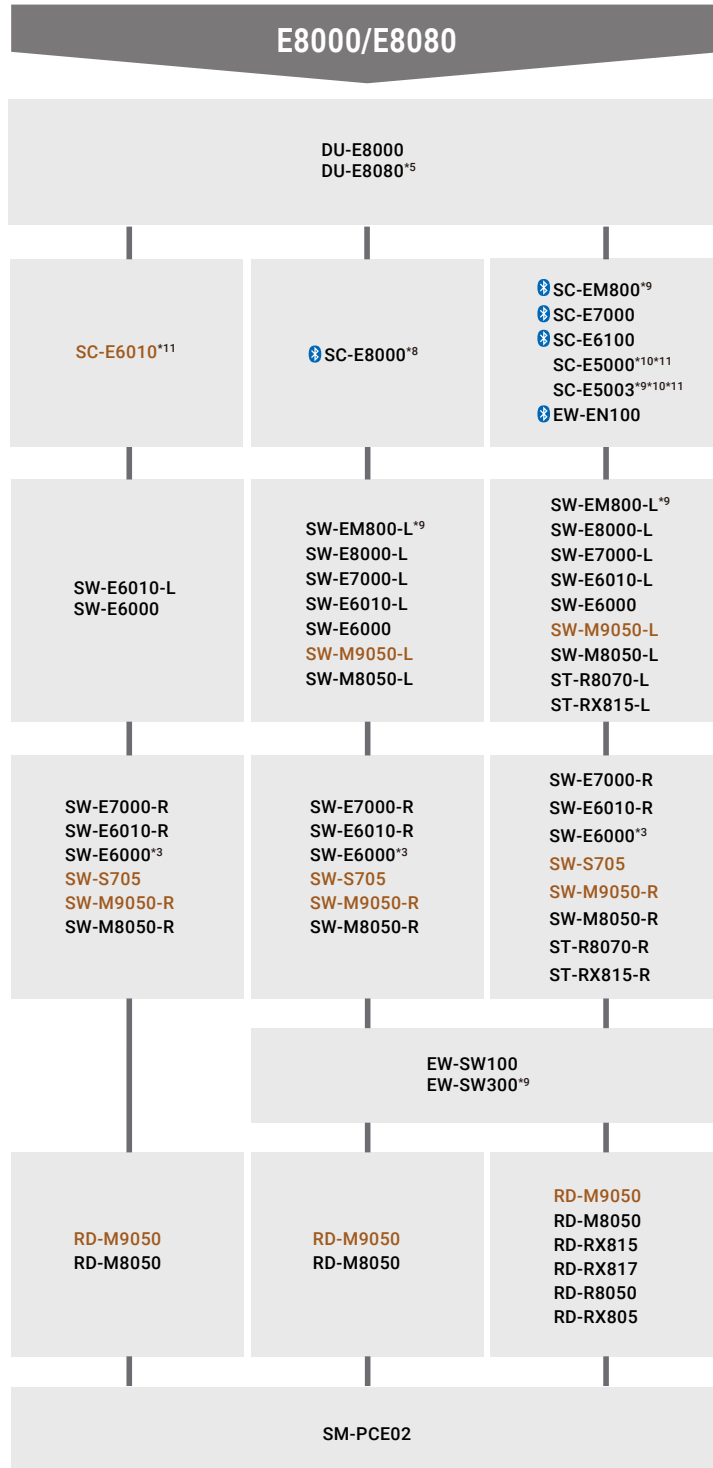
\* This is a compatibility table when using the following batteries.

- SHIMANO E-BIKE SYSTEMS 1st generation battery
- Battery with hardware and firmware compatible with conventional system made by partner manufacturers.

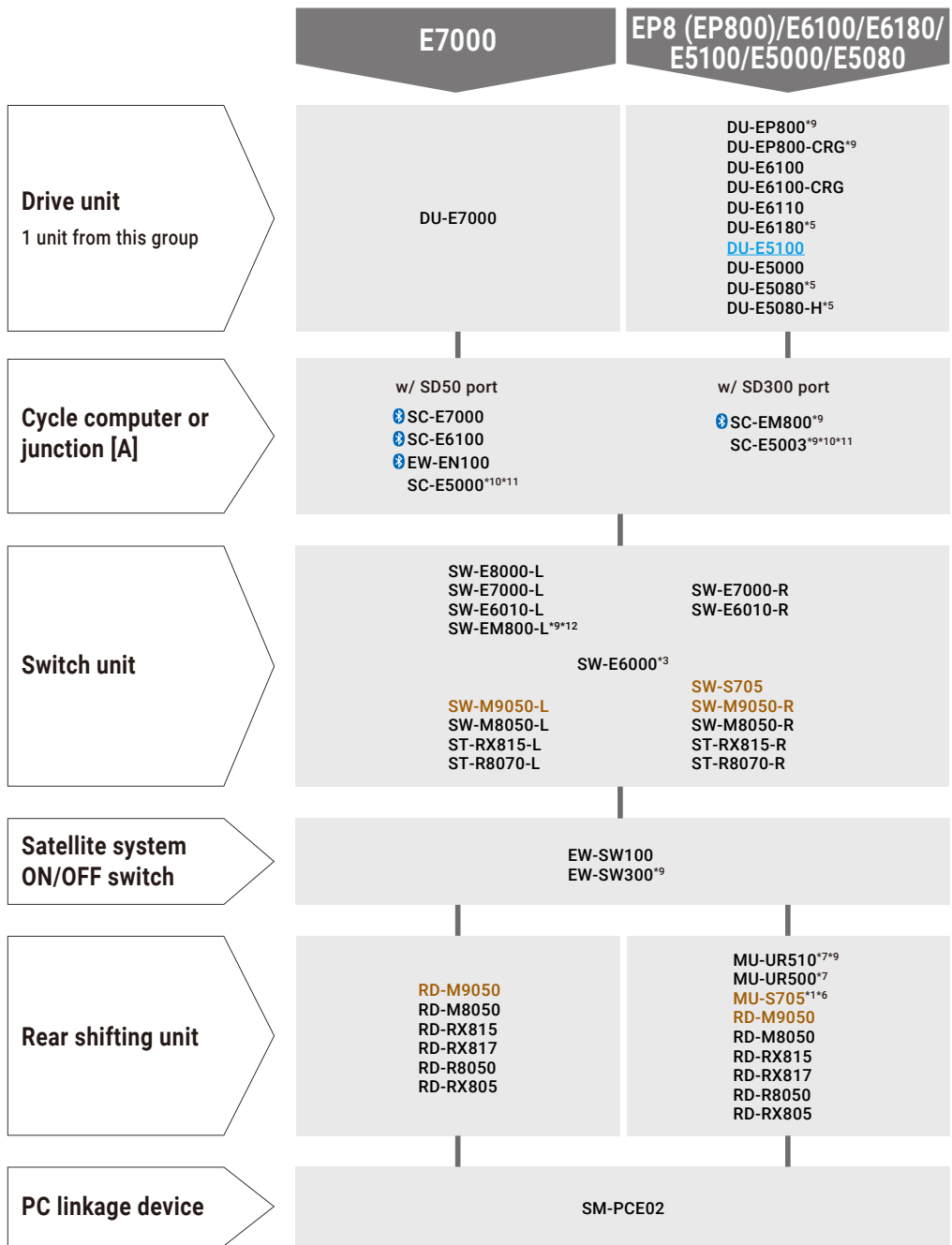
Remarks  
 New models: [XX-####](#)  
 Discontinued: [XX-####](#)



Remarks  
 New models: **XX-####**  
 Discontinued: **XX-####**



Remarks  
 New models: **XX-####**  
 Discontinued: **XX-####**



**Limitation of function ■■■■■■■■**

- \*1 Automatic gear shifting is available only with 8-speed internal geared hubs (Not available with rear derailleurs).
- \*2 Not support automatic shift.
- \*3 Need to change Switch setting by E-TUBE PROJECT.
- \*4 North American market only.
- \*5 Japanese market only.
- \*6 Available only with 11-speed and 8-speed internal geared hubs.
- \*7 Automatic gear shifting is available only with 8 speed and 5 speed internal geared hub system. (Not available with Rear Derailleur)
- \*8 Not available in Japan market.
- \*9 This unit has SD300 port, and needs EW-AD305 for connection with SD50 port unit.
- \*10 SC-E5000, SC-E5003 is only for ø22.2 handlebar. Drop handlebar is unavailable.
- \*11 Not supported by E-TUBE PROJECT Cyclist.
- \*12 To use as a shift switch, the switch settings need to be changed in E-TUBE PROJECT.

Remarks  
 New models: [XX-####](#)  
 Discontinued: [XX-####](#)

**Switch unit**  
 Max. 4 wireless units  
 except satellite shifter  
 from this group \*1

Wireless only spec.

[ST-RX825-L](#) [ST-RX825-R](#) [ST-R7170-L](#) [ST-R7170-R](#)  
[SW-EN605-R](#)

Satellite shifter (option)  
[SW-RS801-S](#) [SW-RS801-T](#)

Wireless or SD300 wired spec.

[ST-R9270-L](#) [ST-R9270-R](#)  
[ST-R8170-L](#) [ST-R8170-R](#)

\* Wireless connection only.

Satellite shifter (option)  
[SW-RS801-S](#) [SW-RS801-T](#)

**Rear shifting unit**

[RD-U8050-SGS](#) [RD-U8050-GS](#) [MU-UR520](#)

**Electric cable for non SHIMANO E-BIKE system**

[EW-PS300](#)

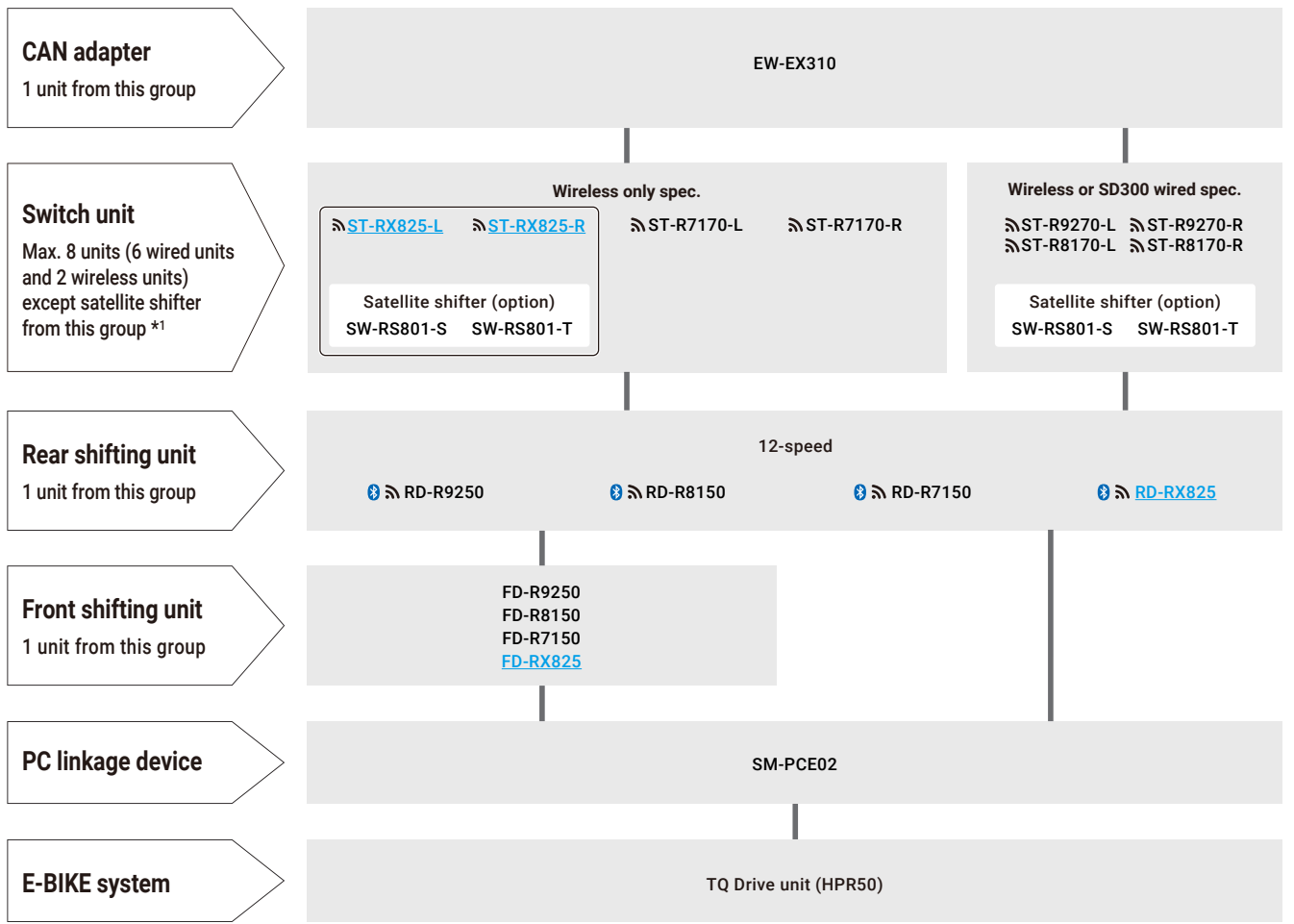
**E-BIKE system**

BOSCH / The smart system

**Limitation of function** ■■■■■■■■

\*1 The number of connectable wireless units is limited as follows:  
 - DUAL CONTROL LEVER: ST-R max. one unit, ST-L max. one unit  
 - Switch unit: maximum of one SW-R/IR

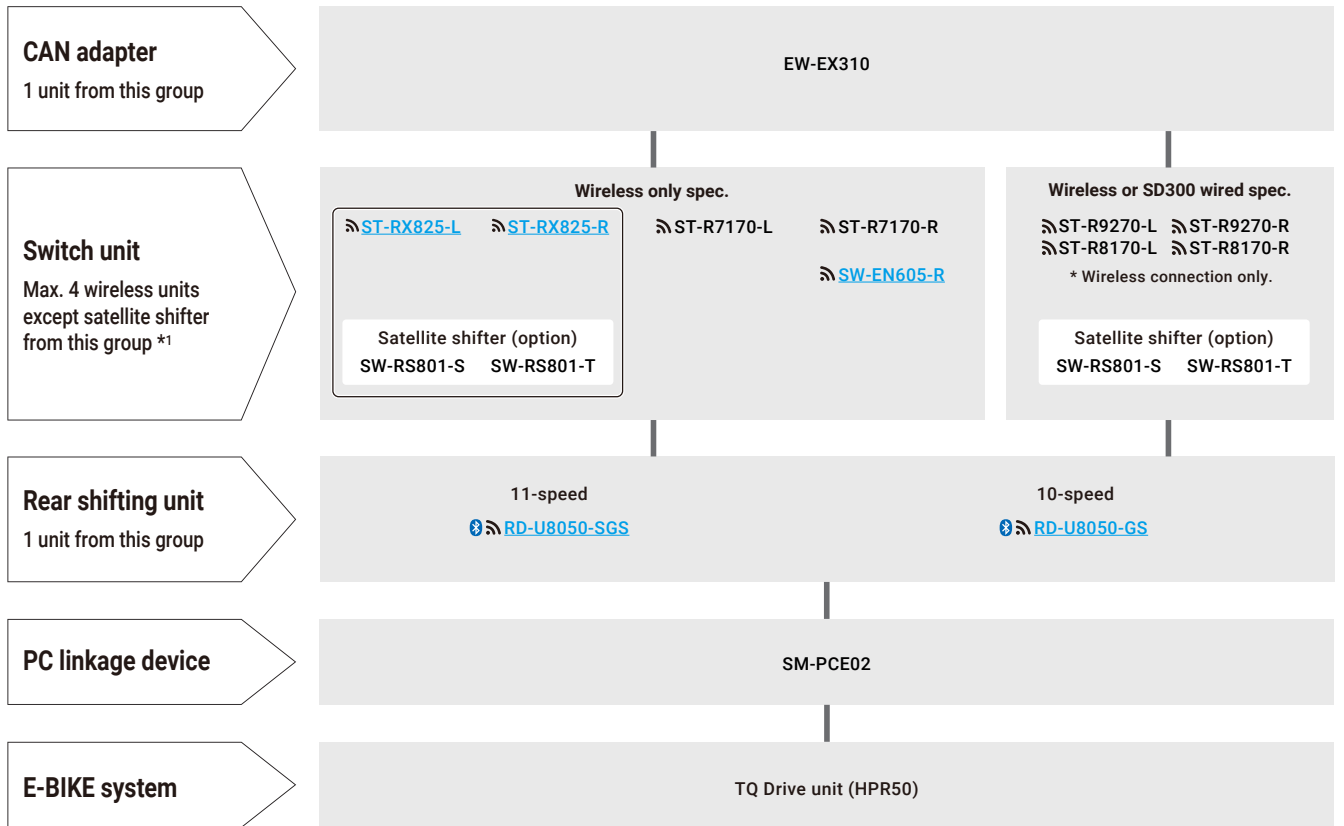
Remarks  
 New models: [XX-####](#)  
 Discontinued: [XX-####](#)



**Limitation of function** ■■■■■■■■

\*1 The number of connectable wireless units is limited as follows:  
 - DUAL CONTROL LEVER: ST-R max. one unit, ST-L max. one unit

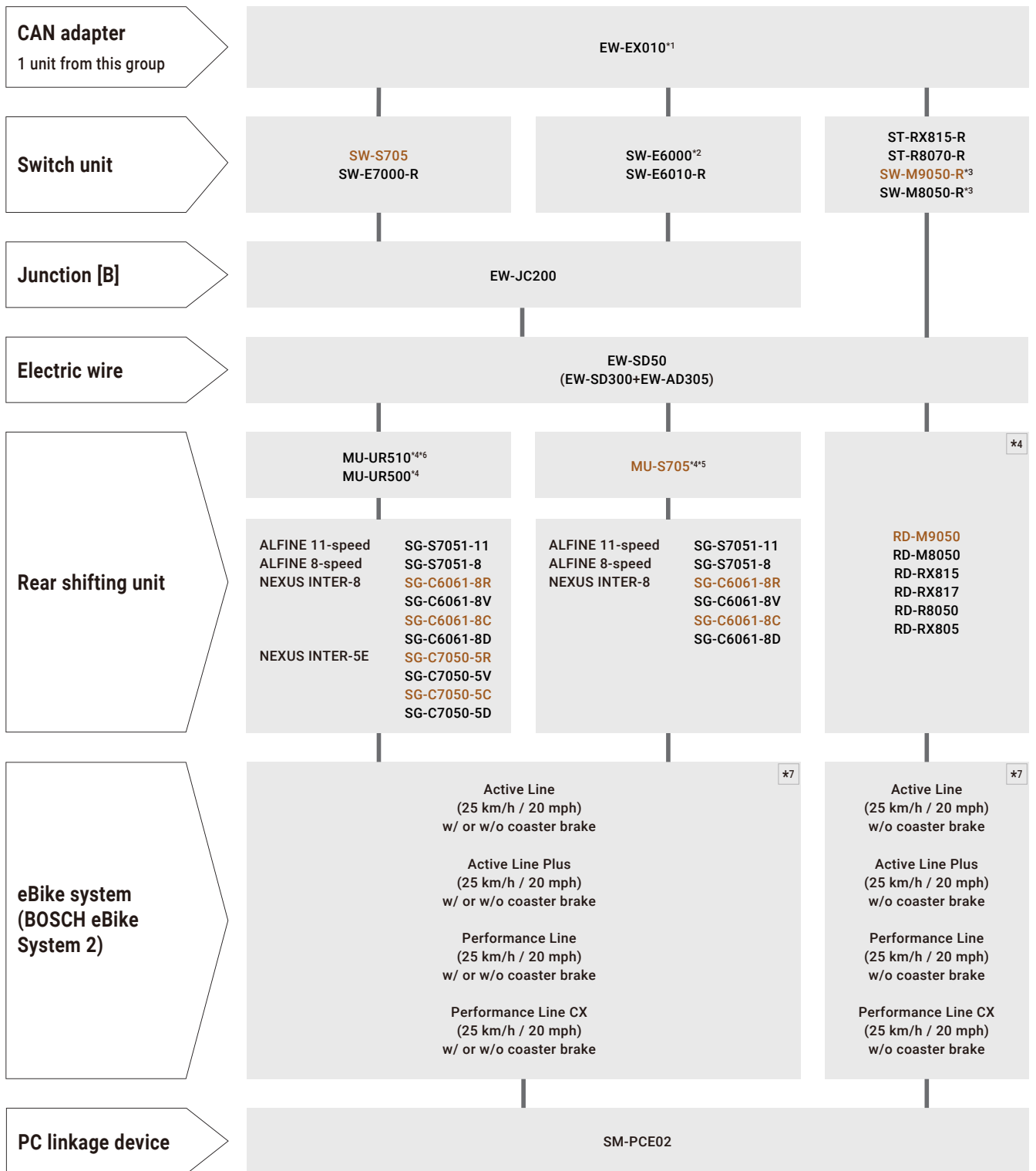
Remarks  
 New models: [XX-####](#)  
 Discontinued: [XX-####](#)



**Limitation of function** ■■■■■■■■

- \*1 The number of connectable wireless units is limited as follows:
- DUAL CONTROL LEVER: ST-R max. one unit, ST-L max. one unit
  - Switch unit: maximum of one SW-R/IR

**Remarks**  
 New models: **XX-####**  
 Discontinued: **XX-####**



**Limitation of function** ■■■■■■■■

- \*1 EW-EX010 and BOSCH eBike system are connected by Y-harness which is provided by BOSCH
- \*2 Need to change switch setting by E-TUBE PROJECT.
- \*3 Cannot change manual gear shifting to automatic gear shifting and its opposite.
- \*4 Automatic gear shifting is available only with internal geared hub by MU-S705 / MU-UR500 / MU-UR510. (Not available with rear derailleur)
- \*5 Compatible with 8-speed and 11-speed internal geared hub system only.
- \*6 This unit has SD300 port and needs EW-AD305 for connection with SD50 port unit.
- \*7 No compatibility with "Classic+ Line" and "Performance Line (45 km/h)".