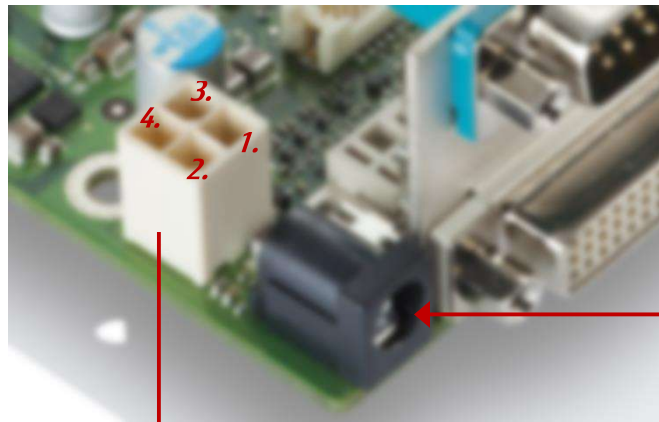


6 Power Supply Features

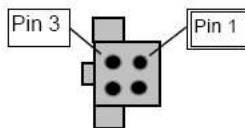
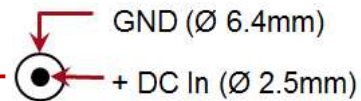
6.1 12V / 19-24V DC Connector



Internal and external DC input can be powered by 12V or 19-24V (auto range switching).

Internal and external DC input must never be powered simultaneously!

Note: Power plug must only be attached to D3313-S while the external power source it switched off!



Pin 1, 2: GND

Pin 3, 4: DC In

Input current for external DC connector: max. 5A

→ Max. 60W @ 12V

→ Max. 100W @ 19-24V



Recommended plug for external AC adapter:

Ø 2.5mm / 5.5mm

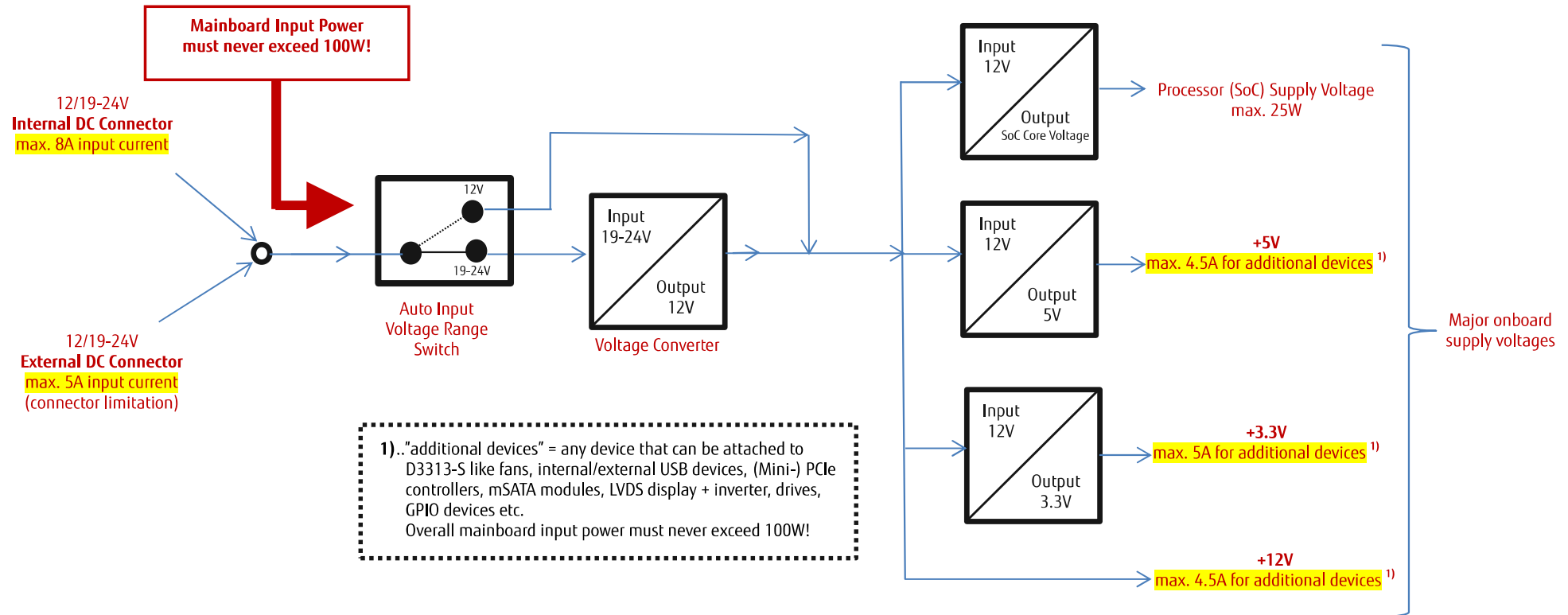
contact length ~ 10-11mm

Angle plug or straight plug

Power Supply Features

6.2 Requirements for 12V / 19-24V operation

Simplified functional diagram for major onboard voltage converters



Power Supply Features

Requirements for 12V / 19-24V operation

Requirements for DC operation

Nominal operating range 12V or 19 - 24V

Max. operating range 12V [+/- 10%] or
19 - 24V [+ 10% - 15%]

Ripple / noise max. 400mV (PP)

Max. input current: 5A (external) / 8A (internal)

The DC power supply input provides
a capacitive load of 700µF which has to be
covered by the AC adapter respectively the
DC source during power ramp-up.

Limited mainboard output current:

The max. mainboard output power
available via (Mini-) PCIe- connector, fan-connectors, USB-
connectors, GPI/O, LVDS/backlight-connector, and drive power
connector is limited!

Max. overall output current for each voltage:

+3.3V / 5A

+5V / 4.5A

+12V / 4.5A

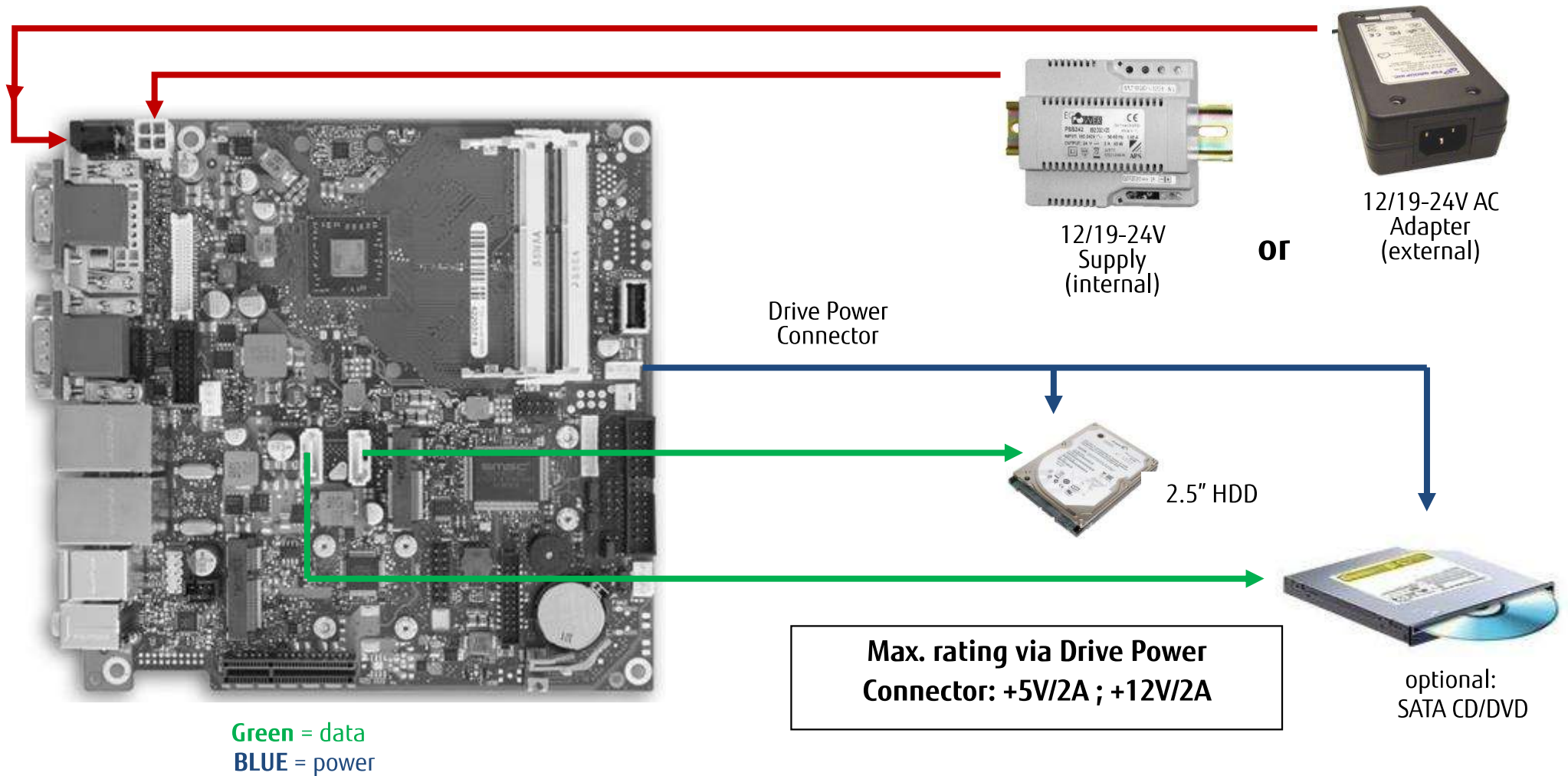


**Mainboard input power
must never exceed 100W!**



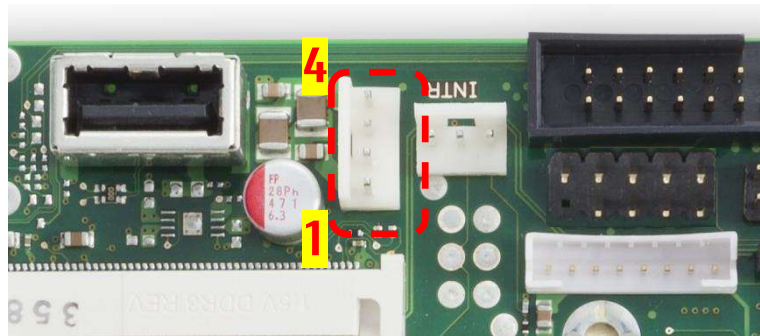
Power Supply Features

6.3 Power option for internal devices



Power Supply Features

6.4 Drive Power Connector



Drive Power Connector

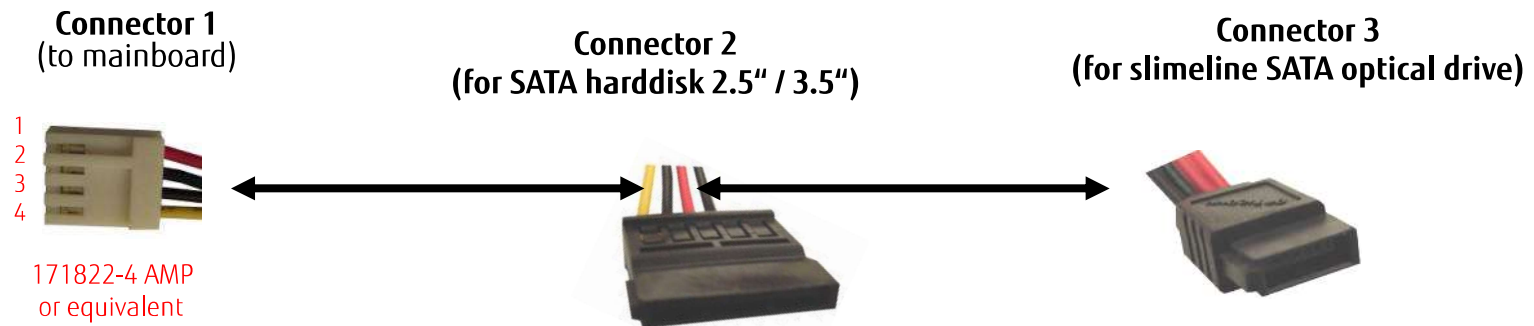
1	VCC (+5V)	max. 2A
2	GND	
3	GND	
4	+12V	max. 2A



Note:
Onboard connector is compliant to standard floppy power supply connector.

Power Supply Features

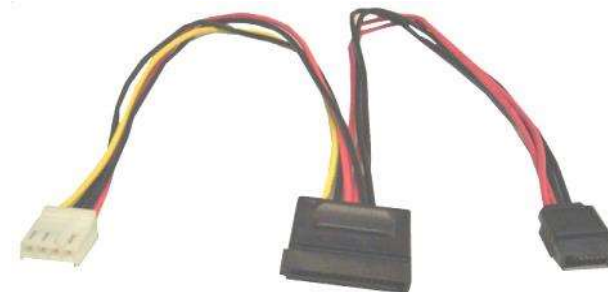
6.5 Fujitsu Drive Power Cable



Note:
overall max. current via connector 1 limited to
+5V / 2A and
+12V / 2A

15 1
 COMAX C1212K32
 or equivalent

6 5 4 3 2 1
 Molex SD-47328-100
 or equivalent



Cable Ordercode:
S26361-F5000-K001
 (Previous ordercode: T26139-Y1500-V700)

connector pinning			
Conn. 1	Conn. 2	Conn. 3	Note
1	7, 8, 9	2, 3	+5V, red
2	4, 5, 6	5, 6	GND, black
3	10, 11, 12		GND, black
4	13, 14, 15		+12V, yellow