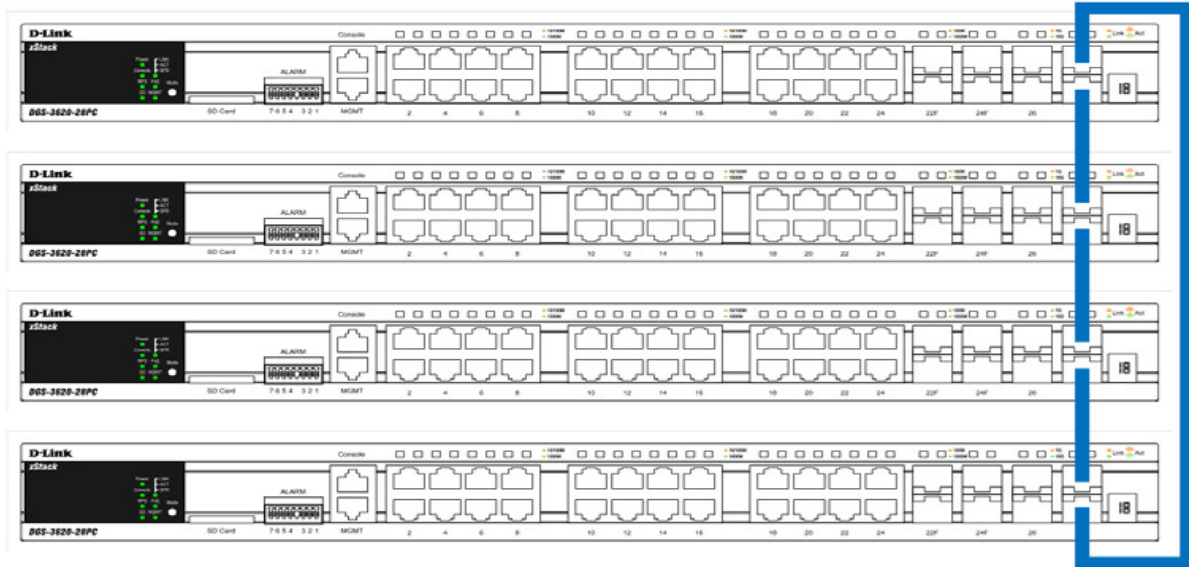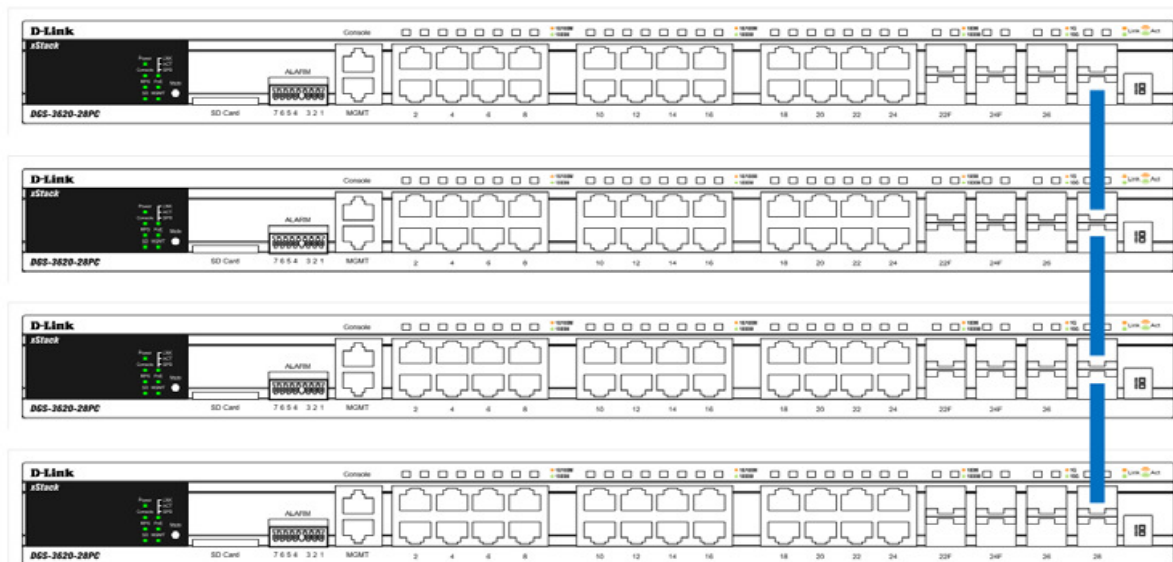# How to set up the Stack on DGS-3x20 Switch Series

Physical stacking is only supported and working within the same Switch family (f.e. DGS-3420-Series, DGS-3620-Series, DGS-3120-Series, DGS-1510-Series,..).
Stacking also ONLY works when using 10GBit/s (or in some cases 120GBit/s) connections.

For the _DGS-3120-Series_ the Stacking Ports are located on the BACK of the switch and have an Infiniband connector.
For all _other Stackable Series_ like DGS-1510, DGS-3420, DGS-3620, DGS-3630, DXS-3400 the Stacking ports are always the last 2 10GBit Ports.
For _the DXS-3600 Series_ you need a dedicated 120GBit XFP Stacking module and commands. Please refer to the dedicated manual and datasheet.

We recommend the build of a "RING" stack for stability purposes when using 3 or more devices in a stack.

Alternatively you also can set up a "DUPLEX CHAIN" stack with the lack of redundancies.

Usually the way to initial set up the stack is as follows (quick and simple)

- set up the stack devices, but do NOT connect the stacking cables
- turn on all devices and connect to the first on by Console
- connect to them via console program like PUTTY (COMx, 115200 baud , 8N1)
    - o enter command "config stacking_mode enable" and confirm with "y"
        "
        DGS-3420-28SC:admin#config stacking_mode enable
        Command: config stacking_mode enable

        Change Box bootmode may cause devices work restart, still continue?(y/n) y
        Please wait, the switch is rebooting...
        "
- repeat this step for ALL devices in your setup to enable the stacking

- after enabling stacking on all devices we recommend to manually define BoxID and Priority for Master and Backup-Master
    - o config box_id current_box_id 1 new_box_id 1
    - o config box_priority current_box_id 1 priority 5
    - o save the settings with "save"
    - o then reboot the switch again with "reboot"

- repeat this for all the Switches, but increase the "Priority" Value in 5 numbers (f.e. 5,10,15,20,25,30,35,40,45,50,55,60) and the "new_box_id" from 1-12 (depending of the maximum number of devices which can be stacked together)

- now you can connect the stacking cable on the last 2 10G Ports , which by now are pure stacking ports

- then connect the console to the device with the "H" and run following command
    - o "show stack_information", to see then all the stacked devices
    "
    DGS-3420-28SC:admin#show stack_information
    Command: show stack_information

    Topology   : Duplex_Chain
    My Box ID   : 1
    Master ID   : 1
    Box Count   : 1

    Force Master Role   : Disabled
    Trap State   : Enabled
    Log State   : Enabled

    Box User   Prio-   Prom   Runtime H/W
    ID   Set   Type   Exist rity   MAC   version version version
    --- ---- ----------------- ----- --- ----------------- -------- --------- ------
    1 User DGS-3420-28SC   Exist 60 FC-75-16-3C-6E-00 1.00.006 1.50.B063 A1
    2 -   NOT_EXIST   No
    3 -   NOT_EXIST   No
    "

- Save the configuration again with "save"