# PoE Budgets and Specs

## hEX PoE (RB960PGS) and PowerBox Pro (RB906PGS-PB)

- 5 Gigabit Ethernet ports, 1 Gigabit SFP cage
  - SFP cage is not connected to the switch chip. Wire-speed switching on the SFP port is not supported
- Single core 400 Mhz, 128 MB RAM, 16 MB flash
- Port 1 supports passive (24V) or active (802.3 af/at) PoE input to power the device
- Ports 2-5 support passive or active PoE output, depending on the input voltage
  - if 48-57 V input voltage is used, output supports 802.3 af/at mode B (4,5+)(7,8-) compatible devices
- The power consumption of this device under maximum load with attachments is 59 W. Without attachments is 6 W.
- **Output power budgets**
  - Total output max: 2 A (should probably be stated as 48 W instead)
    - 24 V * 2 A = **48 W**
    - 48 V * 1 A = **48 W**
  - Per port output maximums
    - Input voltage: 12-30 V
      - Per port output max: 1 A
        - 24 V * 1 A = 24 W
    - Input voltage: 31-57 V
      - Per port output max: 450 ma
        - 48 V * 450 ma = **21.6 W**

## CRS112-8P-4S-IN

- 8 Gigabit Ethernet ports, 4 Gigabit SFP cages
- Single core 400 Mhz, 128 MB RAM, 16 MB flash
- Dual power inputs on the back. Allows support for simultaneous passive and active PoE
  - 18-28 V
  - 48-57 V
- Ports 1-8 support passive or active PoE output, depending on the input voltage
  - if 48-57 V input voltage is used, output supports 802.3 af/at mode B (4,5+)(7,8-) compatible devices
- **Output power budgets**
  - Total output maximums
    - 24 V * 2.8 A = 67.2 W

        - 48 V * 1.4 A = **67.2 W**
    - Per port output maximums
        - Input voltage: 12-30 V
            - Per port output max: 1 A
                - 24 V * 1 A = 24 W
        - Input voltage: 31-57 V
            - Per port output max: 450 ma
                - 48 V * 450 ma = **21.6 W**

## CSS610-8P-2S+IN

- 8 Gigabit Ethernet ports, 2 10 Gigabit SFP+ cages
- **SwitchOS** lite only (no RouterOS)
- Power input on the front of the switch:
    - 12-57 V via 5.5 mm power jack
- Ports 1-8 support passive or active PoE output, depending on the input voltage
    - if 48-57 V input voltage is used, output supports 802.3 af/at mode B (4,5+)(7,8-) compatible devices
- Max power consumption with attachments is 162 W. Without attachments is 12 W.
- **Output power budgets**
    - Total output maximums: **140 W**
    - Per port output maximums
        - Input voltage: 12-30 V
            - Per port output max: 1 A
                - 24 V * 1 A = 24 W
        - Input voltage: 31-57 V
            - Per port output max: 625 ma
                - 48 V * 625 ma = **30 W**

## netPower 16P

- 16 Gigabit Ethernet ports, 2 10 Gigabit SFP+ cages
- RouterOS or SwitchOS
- ARM 32-bit Single core 800 Mhz, 256 MB RAM, 16 MB flash
    - Dual power inputs on the back. Allows support for simultaneous passive and active PoE
        - 18-30 V
        - 48-57 V
- Ports 1-16 support passive or active PoE output, depending on the input voltage
    - if 48-57 V input voltage is used, output supports 802.3 af/at mode B (4,5+)(7,8-) compatible devices
- Max power consumption with attachments is 325 W. Without attachments is 21 W.
- **Output power budgets**
    - Total output maximums: **140 W**

- Max PoE-out on low (<30 V) voltage: 5.6 A: 2.8 A per 8 port group, max 1.1 A per port
- Max PoE-out on high (>30 V) voltage: 2.8 A (**134.4 W)**: 1.4 A per 8 port group (**67.2 W**), max 0.6 A per port (**28.8 W**)
- Per port output maximums
  - Input voltage: 12-30 V
    - Per port output max: 1 A
      - 24 V * 1 A = 24 W
  - Input voltage: 31-57 V
    - Per port output max: 625 ma
      - 48 V * 625 ma = **30 W**

## CRS328-24P-4S+RM

- 500 W power supply built-in
- The device consumes up to 44 W leaving guaranteed 450 W (3 x 150 W per every 8 Ethernet port group)
- Each port can provide up to 30 W of power with any power output option you choose.
- Power output options: Passive PoE, low voltage PoE, 802.3af/at (Type 1 “PoE” / Type 2 “PoE+”) with auto-sensing. PoE-Out is passed over mode B pins (4,5+)(7,8-).

## CRS354-48P-4S+2Q+RM

- 750 W power supply built-in
- Each port can provide up to 30 W of power with any power output option you choose.
- Power output options: Passive PoE, low voltage PoE, 802.3af/at (Type 1 “PoE” / Type 2 “PoE+”) with auto-sensing. PoE-Out is passed over mode B pins (4,5+)(7,8-).
- Output per port (53V out) 570 mA (30 W)
- Output per port (26V out) 1000 mA (26 W)
- Total output power 700 W
- Total output 27 A at 26 V (702 W), or 13.2 A at 53 V (699.6 W).

#end

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