



# New Radio Platform - FDD Classic Radios

Radio 4490HP 44B5 44B13 C (KRC 161 985/31)

Radio 4890HP 48B2/B25 48B66 M01 (KRC 161 983/31)



# RADIO 4490 B5 B12

- 4 common RF ports (C)
- B5: 4x60W, B13: 4x60W
- 480W total RF output power
- L, NR, NB-IoT
- 2x 2.5/4.9/9.8/10.1/24.3 Gbps CPRI/eCPRI

Radio 4490HP 44B5 44B13 C	Height	Width	Depth	Weight
wo protruding items	17.5 In (444 mm)	15.2 In (384 mm)	6.8 In (172 mm)	~68.4 lbs (~31 kg)
w protruding items	20.6 In (522 mm)	15.7 In (397 mm)	7.0 In (178 mm)	

- -48 VDC 2-wire (one DC connector input)
- AISG v3.0 TMA & RET support via RS-485 or RF connectors
- Type 4.3-10 RF + connectors
- 2 external alarm
- Convectional cooling
  - Optional fan for increased site flexibility
- IP 65, -40 to +55°C

Pending Commercial Agreements



B5 B13: 4 ports  
Common antenna  
Common tilt



Now confirmed  
max measurements/ will not exceed

# RADIO 4490 B5 B12

## MIGRATE FROM RADIO 4449



From Radio 4449		To Radio 4490HP	
Radio type	Radio 4449 B5 B13		Radio 4490HP B5 B13
Size wo protruding	H: 380 x W:335 x D: 235 (mm)	→	H: 444 x W:384 x D: 172 (mm)
Total weight	31kg	→	31kg
Volume	30l	→	30l
Max power	4x40W(B5)+4x40W(B13) = 320W	→ 150%	4x60W(B5)+4x60W(B13) = 480W
Other Config	2x60W(B5)+2x60W(B13) = 240W	→	2x60W(B5)+2x60W(B13) = 240W
Power consumption	[X]	→ ~70%	[X]-30% for the same config

- 50% increase in output power compared to Radio 4449 B5 B13
- ~30% reduction in power consumption compared to Radio 4449 B5 B13 for the same config
- One DC power connector

# Radio 4890 B25 B66

Pending Commercial Agreements



- 8 RF ports, 4T8R per band (S for TX)
- B2: 4x60W
- B66: 4x60W
- Up to 480W in total RF power
- L, NR, NB-IoT
- 2x 2.5/4.9/9.8/10.1/24.3 Gbps CPRI/eCPRI

Radio 4890HP 48B2 48B66 S	Height	Width	Depth	Weight
wo protruding items	17.5 In (444 mm)	15.2 In (384 mm)	7.0 In (176 mm)	~69.5 lbs (~31.5 Kg)
w protruding items	20.6 In (522 mm)	15.7 In (397 mm)	7.2 In (182 mm)	

- -48 VDC 2-wire (single DC-connector),
- AISG v3.0 TMA & RET support via RS-485 or RF connectors
- Type 4.3-10 RF + connectors
- 2 external alarm
- Convectional cooling
  - Optional fan for increased site flexibility
- IP 65, -40 to +55°C



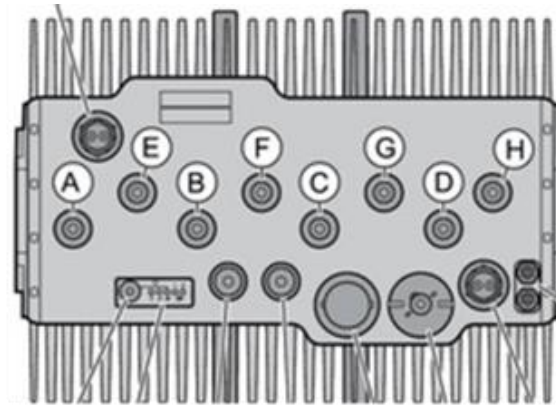
B2/B25 TX: 4 ports  
B66 TX: 4 ports  
B2/B25 &  
B66 RX: 8 ports



Same order as Radio 8843

Now confirmed  
max measurements/ will not exceed

# Radio 4890HP B2/B25 B66 - Interface



Radio 8843 TX RF-port definition



Radio 4890HP  
TX RF-port definition

- JMA rubber boots were tested in usability study
- Radio Ancillary kit:
  - 25G BiDi SFPs for 2 CPRI links
    - If connected to BB 6630 -> 10G
      - = No tower climb to upgrade BB/RP
  - 1 pc 2-wire DC power connector
    - If replacing 8843 = replace power cable
- Pole mount kit included
  - Rail mount optional

# Power Consumption comparison - preliminary



Notes: values for Radio 4890HP B2/B25 5B66 are estimates, subject to +/-5% variation

Values for Radio 4890HP B2/B25 B66 includes power consumption for eCPRI (packet switched fronthaul), 8R, features not available in radio 8843

Radio 4890 is built to support 480W output power, whereas Radio 8843 is built to support 320W output power.

Values shown are for room temperature

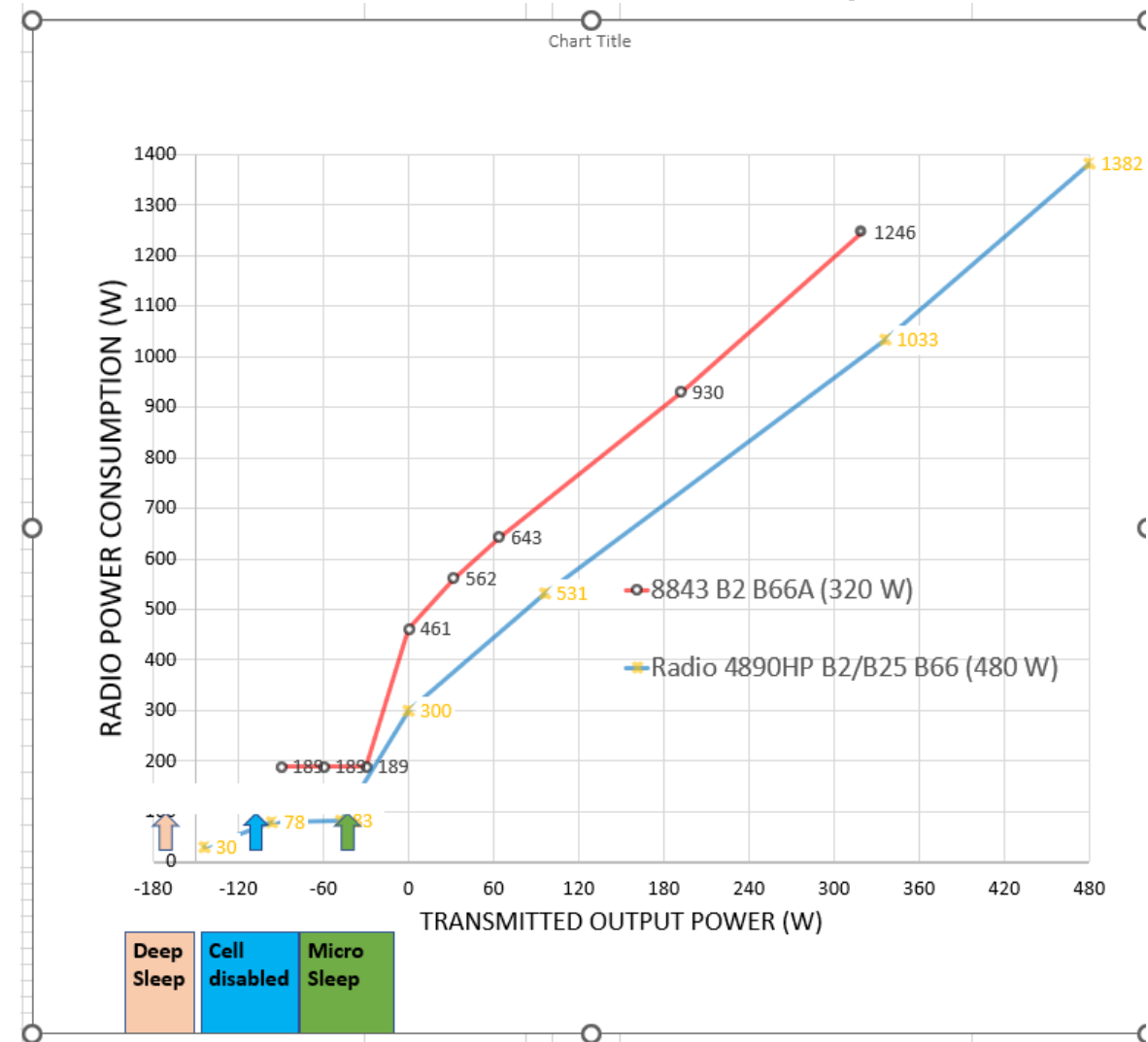
High temperature add 10-15% for all radios

Savings depend upon traffic and use of sleep functions (values assumes 320W configured output power):

Lower traffic site 30-40% savings, 130-170W savings\*

Higher traffic site 25-30% savings, 180-210W savings\*

\*Additional savings possible if Deep Sleep (new for Radio 4890HP) is used



# Mounting Scenarios

Radio 8843

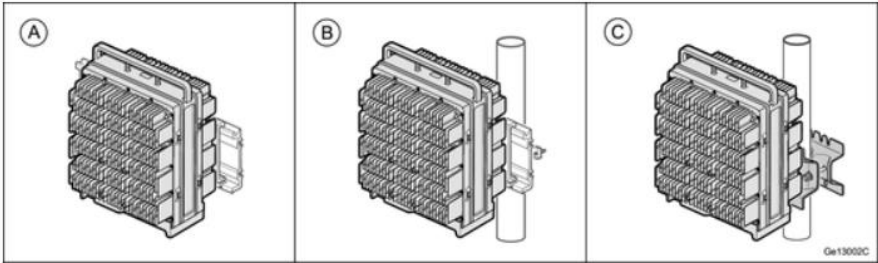


Figure 5 Installation Alternatives

Table 3 Key to Installation Alternatives

Installation Method	Description
A	Wall installation
B	Pole installation
C	Pole installation with Dual ERS Bracket

4890HP



### 3.2 Installation Alternatives

