

Manufacturer Declaration on PAN1770 antenna gain

PAN1770 is a variant of the base Model PAN1780 with external stub antenna instead of internal ceramic antenna. Base Model ID's are

- RED TEC T818666-03-TEC
- FCC ID: T7V1780
- IC ID: 216Q-1780

TO WHOM IT MAY CONCERN

We, Panasonic Industrial Devices Europe GmbH, declare on our sole responsibility that the PAN1770 antenna gain of the assembly cable plus antenna is **+1,4dBi**.

Evidence

- 1) Antenna data sheet by manufacturer Pulse P/N W1030 states 2.0 dBi gain
- 2) U.FL to RP-SMA cable data sheet by manufacturer TE Connectivity P/N 20166993-x states an attenuation of $(2.6 * \text{LENGTH} + 0.4)$ dB = 0.66 dB at 100mm length, which can be rounded down to 0.6 dB attenuation for allowing margin.

Calculation

PAN1770 antenna gain = 2.0dBi – 0.6 dB = **+1.4 dBi**

If you have any questions, please feel free to contact us at the address shown below.



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Attachments

- 1) W1030 antenna data sheet
- 2) 20166993-x cable data sheet