

## 7. APPLICATION

### 7.1. Introduction

The ITS 6006 can be used for various applications through its multiple connectivity. Some examples are shown in the following paragraphs.

### 7.2. Setup 80 MHz to 3 GHz with two power amplifiers and one antenna/GTEM cell

Path 1 and 2:

- ITS 6006
- Test House Software
- Antenna 80 - 3000 MHz, alternative GTEM cell

Path A:

- Power amplifier 80 - 1000 MHz
- Directional coupler 80 - 1000 MHz
- Power meter PMR 6006

Path B:

- Power amplifier 1-3 GHz
- Directional coupler 1-3 GHz
- Power meter PMR 6006

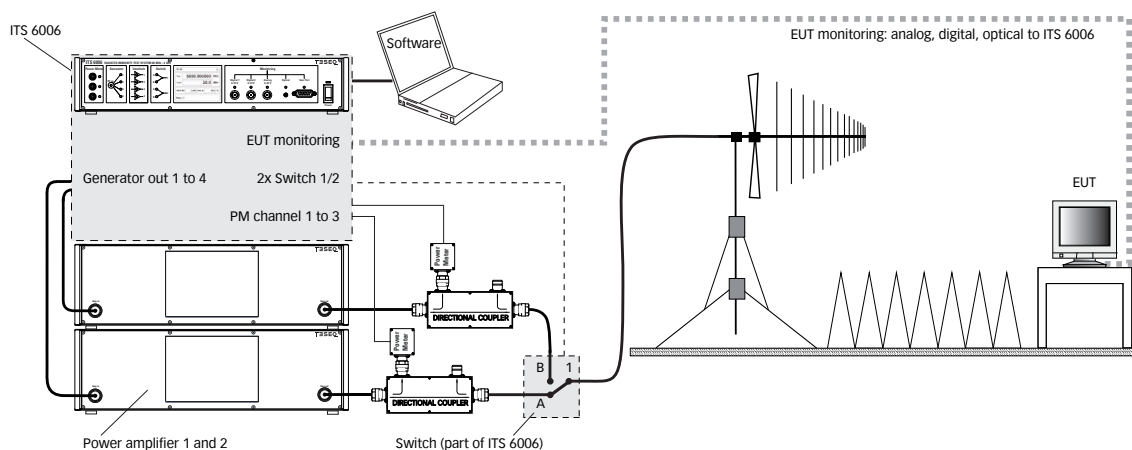


Figure 4: Setup 80 MHz to 3 GHz with two power amplifiers and one antenna

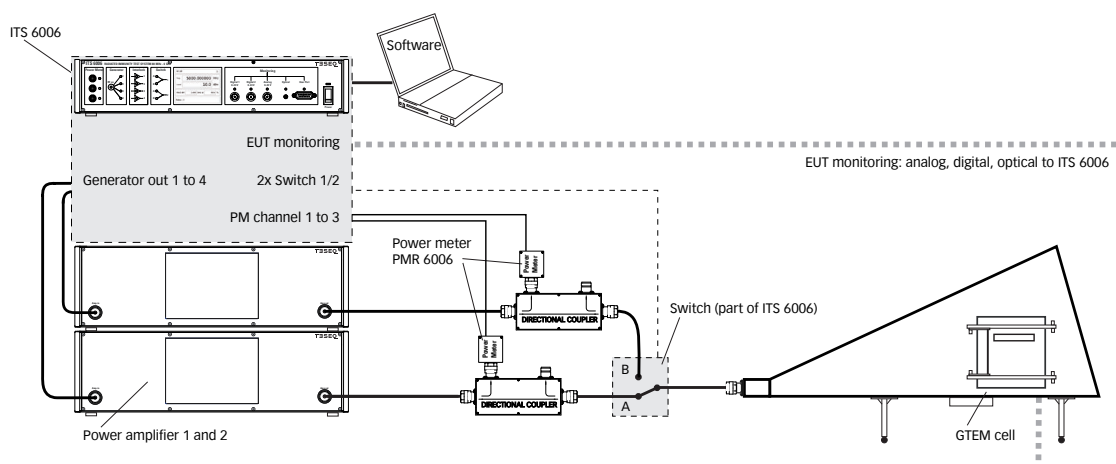


Figure 5: Setup 80 MHz to 3 GHz with two power amplifiers and GTEM cell

### 7.3. Setup 80 MHz to 3 GHz with two power amplifiers, one GTEM cell and connection for the emission measuring

Path 1:

- ITS 6006
- Test House Software
- GTEM cell

Path A:

- Power amplifier 80 - 1000 MHz
- Directional coupler 80 - 1000 MHz
- Power meter PMR 6006

Path B:

- Power amplifier 1-3 GHz
- Directional coupler 1-3 GHz
- Power meter PMR 6006

Path 2:

- Connection for the emission measuring

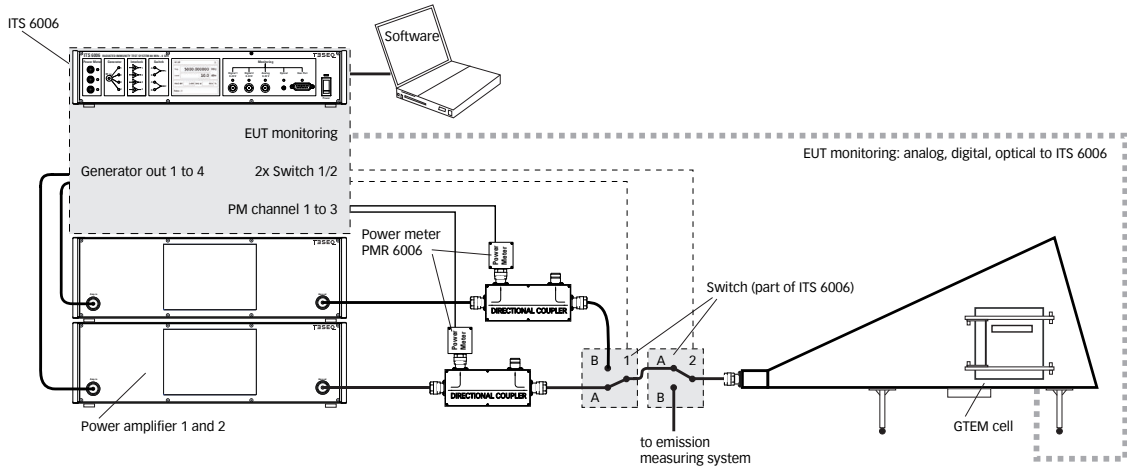


Figure 6: Setup 80 MHz to 3 GHz with two power amplifiers, one GTEM cell and connection for the emission measuring

#### 7.4. Setup 80 MHz to 6 GHz with three power amplifiers and one antenna

Path 1 and 2:

- ITS 6006
- Test House Software
- Antenna 80 - 6000 MHz

Path A1:

- Power amplifier 80 - 1000 MHz
- Directional coupler 80 - 1000 MHz
- Power meter PMR 6006

Path B1:

- Power amplifier 1-3 GHz
- Directional coupler 1-3 GHz
- Power meter PMR 6006

Path B2:

- Power amplifier 3-6 GHz
- Directional coupler 3-6 GHz
- Power meter PMR 6006

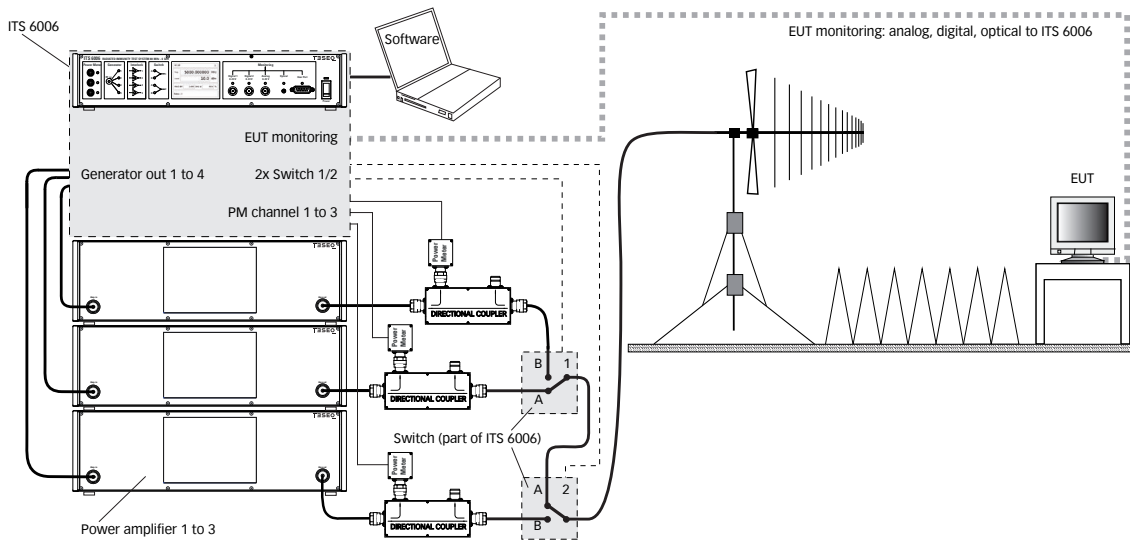


Figure 7: Setup 80 MHz to 6 GHz with three power amplifiers and one antenna

### 7.5. Setup 80 MHz to 6 GHz with three power amplifiers and GTEM cell

Path 1 and 2:

- ITS 6006
- Test House Software
- GTEM cell

Path A1:

- Power amplifier 80 - 1000 MHz
- Directional coupler 80 - 1000 MHz
- Power meter PMR 6006

Path B1:

- Power amplifier 1-3 GHz
- Directional coupler 1-3 GHz
- Power meter PMR 6006

Path B2:

- Power amplifier 3-6 GHz
- Directional coupler 3-6 GHz
- Power meter PMR 6006

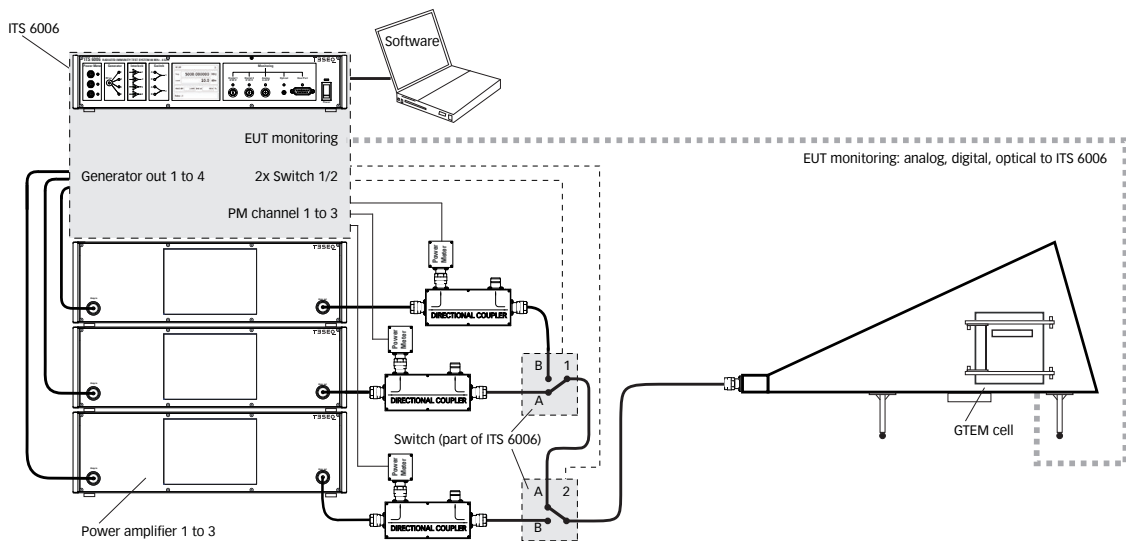


Abb. 8: Setup 80 MHz to 6 GHz with three power amplifiers and GTEM cell

## 7.6. Setup 80 MHz to 6 GHz with three power amplifiers and two antennas

Path 1 and 2:

- ITS 6006
- Test House Software

Path 1:

- Antenna 80 - 3000 MHz

Path A1:

- Power amplifier 80 - 1000 MHz
- Directional coupler 80 - 1000 MHz
- Power meter PMR 6006

Path B1:

- Power amplifier 1-3 GHz
- Directional coupler 1-3 GHz
- Power meter PMR 6006

Path 2:

- Power amplifier 3 - 6 GHz
- Directional coupler 3 - 6 GHz
- Power meter PMR 6006
- Antenna 3 - 6 GHz

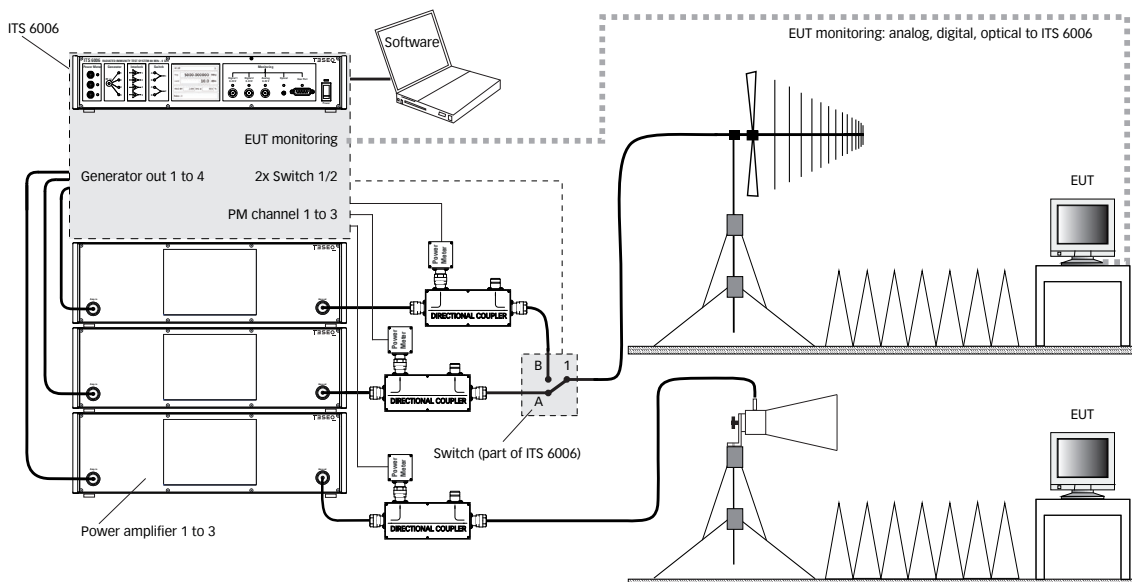


Figure 9: Setup 80 MHz to 6 GHz with three power amplifiers and two antennas

## 7.7. Setup 80 MHz to 6 GHz with four power amplifiers and two antennas

Path 1 und 2:

- ITS 6006
- Test House Software

Path 1:

- Directional coupler 80 - 2000 MHz
- Power meter PMR 6006
- Antenna 80 - 2000 MHz

Path A1

- Power amplifier 80 - 1000 MHz

Path B1

- Power amplifier 1 - 2 GHz

Path 2

- Antenna 2-6 GHz

Path A2:

- Power amplifier 2-4 GHz
- Directional coupler 2-4 GHz
- Power meter PMR 6006

Path B2:

- Power amplifier 4-8 GHz
- Directional coupler 4-6 (8) GHz
- Power meter PMR 6006

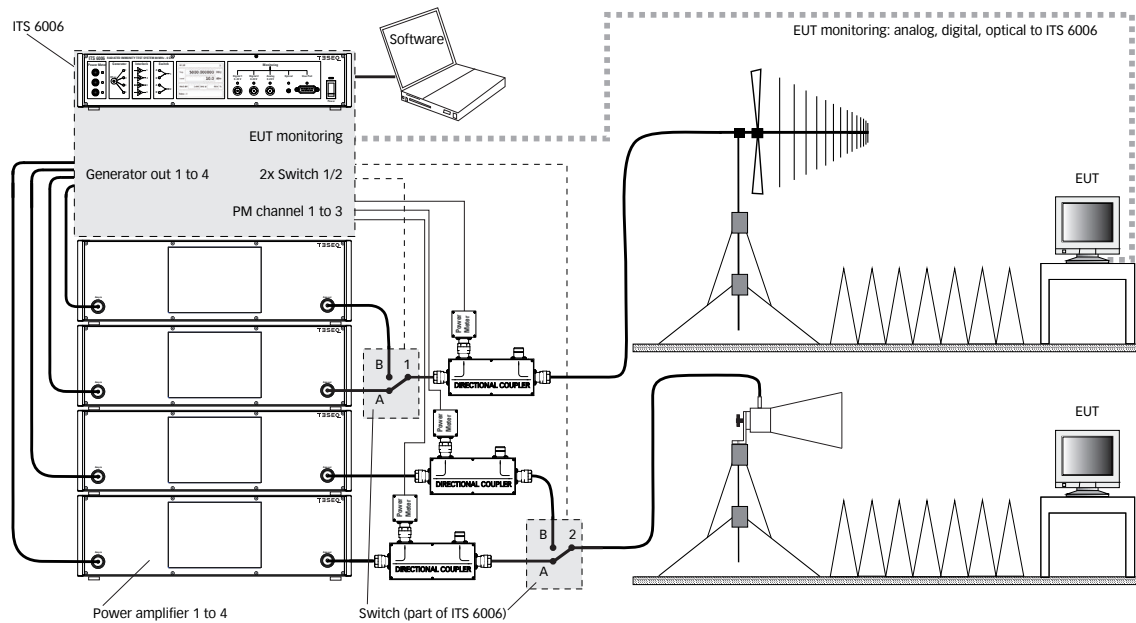


Figure 10: Setup 80 MHz to 6 GHz with four power amplifiers and two antennas