

Equipment and Antenna Reference Codes

Introduction

Customers applying for fixed terrestrial (point-to-point) licences should ensure that their equipment provider has made the necessary R&TTE Directive declaration before submitting an application to us.

Both the Equipment Reference Code and the Antenna Reference Code spreadsheets are used in making a licence application for a fixed terrestrial (point-to-point) link using application form OfW85.

We provide regular updates to the Equipment and the Antenna lists which are records from our Fixed Link Spectrum Management system, or more commonly FiLSM.

Both sets of code are produced in Microsoft Excel spreadsheet form and are actual listings of all equipment previously licensed in the UK. They therefore contain historic equipment no longer in use. They are not meant to be complete lists of all the fixed link manufactured antennas and equipment. Neither are they an endorsement by Ofcom of preferred makes and models. The lists are simply produced for adding extra value to our customers by helping to simplify the licensing process and for reducing error margins in identifying the appropriate equipment performance details when making an assignment.

Equipment Reference Codes

Licensees will find an online spreadsheet of Equipment Reference Codes

This is typically a spreadsheet periodically downloaded from FiLSM. The spreadsheet headings (in **bold**) from left to right are:

1. frequency '**Band**' (GHz);
2. '**Description**' which is usually the manufacturer;
3. '**Model Number**' of the equipment;
4. unique equipment reference '**Code**'
5. '**Bit Rate**' usually shown with channel spacing (e.g. **155/28** for a 155 Mbit/s in 28 MHz system etc. Also note the comments for question D.5);
6. '**Active**' status either '**Y**' or '**N**'. '**N**' signifies that the equipment is old or not in production and we usually will not assign this equipment; and
7. '**R&TTE Notified**' signifying that the equipment has been successfully notified under the current R&TTE Directive by '**Y**' or approval was under the old national type approval regime using UK national MPT regulations by '**N**'.

When making your application it is the code (item 4) which is required in the application form. The application prefixes this code with '**E**' standing for equipment for clarity. You should ensure that when entering this code that you enter the information accurately from left to right, taking notice of the code separators "/" and any other special characters. If you are unable to find the relevant Equipment Reference Code on the website then you should contact us directly before sending your application to us.

A couple of valid extracts for 38 GHz equipment, e.g. for 155 MBit/s in 28 MHz systems are:

- **38/DT/0/43/DM** for ALTIUM 38GHZ STM-1; and
- **38/DT/2/91/NE** for PASOLINK PLUS 38GHz.

Antenna reference Codes

Licensees will find an online spreadsheet of Antenna Reference Codes

This is typically a spreadsheet periodically downloaded from our assignment system. The spreadsheet headings (in **bold**) from left to right are:

1. frequency '**Band**' (GHz);
2. '**Description**' which is usually the manufacturer;
3. '**Model**' number of the antenna;
4. unique equipment reference '**Type**'
5. '**Antenna Description**' usually a free text field with additional information e.g. full absorber, side ear absorber, no absorber etc.;
6. '**Performance**' status either '**H**', '**S**' or '**O**' respectively for high performance, standard performance or other performance.; and
7. '**Size**' signifying antenna diameter in metres, for example 0.3, 0.6 etc;
8. '**Gain**' signifying bore sight gain in dBi, for example 38 and 43 etc; and
9. '**Beam Width**' specifying the half-power 3dB beamwidth in degrees, for example 1 or 2.

When making your application it is the type (item 4) which is required. The application prefixes the type code with 'A' for antenna for clarity. You should ensure that when entering this code that you enter the information accurately from left to right, taking notice of the code separators "/" and any other special characters. If you are unable to find the relevant Antenna Reference Code on the website then you should contact us directly before sending your application to us.

A couple of valid extracts for high performance 38 GHz antennas are:

- **A/38/H/97/10/AA** for 0.3 metre paraboloid; and
- **A/38/H/91/6/FM** for 0.2 metre lens horn.