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RADIO HISTORY UK

## ZYCOMM FM5016

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# **Zycomm** **Business Radio** **NEW PRODUCT**

## ***FM5016 SYNTHESISED MOBILE RADIOTELEPHONE***



***Setting the standard for the 1980's***

- **High Power**
- **Superb Sensitivity**
- **16 Switched Channels  
(Expandable)**
- **Level Performance  
Response over 7 MHz**
- **Full Duplex Version**

A small stylish mobile approved to MPT 1301, using phase lock loop technology for the synthesis of its operating frequencies. The design features this series incorporates makes them probably one of the most flexible units available in the UK today.

Sixteen channel capability, with possibility of expansion, makes the use of synthesisers sensible — not just a remedy to the waiting time for special crystal manufacture. Multi-channel users (e.g. Message

Handling companies) can make particular use of this capacity — with ready access to their own allocation of channels and others they are authorised to share.

The FM5016 is programmed with an EPROM, with channel selection via a front panel switch. EPROM's programmed to users requirements are available for despatch within 1 hour to your approved supplier. Restricting programming to authorised personnel eliminates chance violation of licencing conditions.

Performance response is virtually level across the whole operating band, eliminating the need for adjustments for each sub-band. Channels for simplex or semi-duplex operation can be mixed in any combination. A full duplex version is available.

CTCSS tone mute and selective call options are immediately available, and their operation can be confined to specific channels.

Operation under adverse ambient noise conditions is assisted by the combined speaker/microphone unit supplied. The full 2 watt audio output can be realised with a remote mounted speaker.

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**FM5016 SYNTHESISED MOBILE RADIOTELEPHONE**

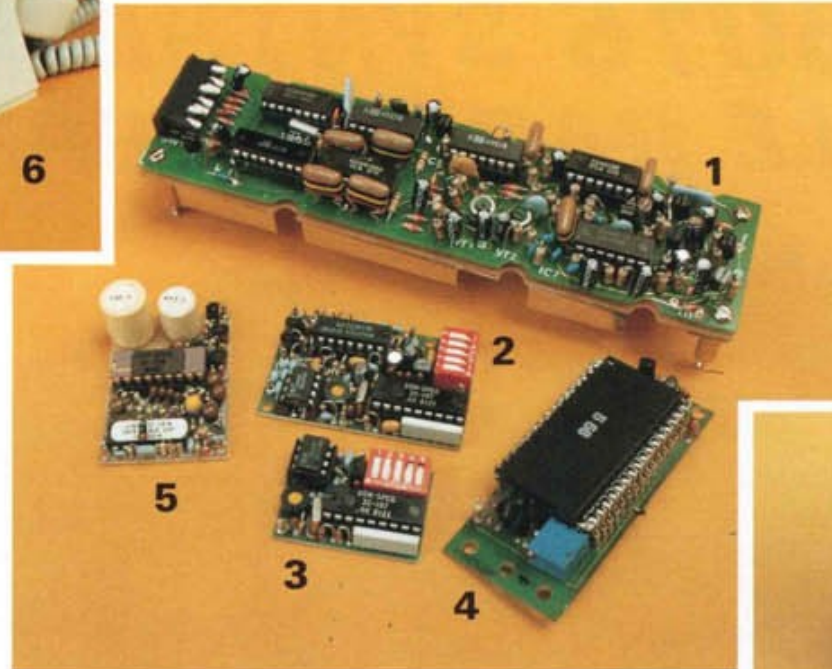




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**1 CBS 1-3 Community Repeater Control Panel** incorporating crystal controlled CTCSS encode and decode, P.T.T. lock out and busy engaged tone; plus transmission duration limiter and tone filter.

**2 Communication Specialist's TS32** programmable CTCSS tone encoder/decoder incorporating high pass filter.



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**3 Communication Specialist's SS32 CTCSS** tone encoder or in the form of SS32B tone burst.

**4 Selective Call Decoder** encoder/decoder with revertive call and variable status.

**5 Communication Specialist's SD1** tone sequential decoder, element controlled.

**6 Remote Handset with P.T.T.**

**7 Remote Speaker Unit**



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## ACCESSORIES FOR FM5016 MOBILE RADIOTELEPHONE

### GENERAL SPECIFICATION

#### MODEL DESIGNATIONS AND FREQUENCY RANGES

FM5016H — High Band

156-175 MHz

FM5016L — Low Band (Under Development)

#### GENERAL SPECIFICATION

Type of Emission:

F3

Approved to Specification:

MPT 1301

Useable Bandwidth:

7 MHz (3dB points  $\pm$  3.5 MHz)

Power Source:

13.8 volts  $\pm$  10% (Negative Ground)

Power Consumption:

8.5 amps maximum

Dimensions: (mm)

58 high x 180 wide x 200 deep — excluding heatsink

Weight:

2.5 Kg

#### TRANSMITTER

RF Output:

#### RECEIVER

Circuit System:

50 watts minimum (Variable down to 10 watts)  
(25 watts-Duplex)

**Deviation:**

± 2.5kHz

**Frequency Stability:**

± 0.0005% from -10 to +50°C

**Spurious Emission:**

Better than -70 dB

**Harmonics:**

Better than -70 dB

**Audio Response:**

0.3 kHz: -10.5 ± 3 dB

3.0 kHz: +6 ± 3 dB

**Distortion Factor:**

Better than 10% (1 kHz 70% modulation)

Double Superheterodyne

**Intermediate Frequencies:**

1st: 21.7 MHz 2nd: 455 kHz (VHF High Band)

**Frequency Stability:**

± 0.0005% from -10 to +50°C

**Sensitivity:**

Better than 0.3 microvolt for 12 dB SINAD

**Spurich Sensitivity:**

Less than 0.3 microvolt

**Spurious Response:**

More than 80 dB below wanted signal

**Selectivity:**

Better than 75 dB

**Audio Output:**

2 watts (10% distortion)

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D. J. MCKAY G1JWG 2024

## YOUR LOCAL HOME OFFICE APPROVED AGENT

Zycomm maintain a policy of continuous product development. The right is reserved to change specifications without notice.