CEL

The Best Buy?

The basic circuitry and perfor-

mance has not changed greatly

since the FT101 Mark 2, and price

and condition are the main con-

sideration when purchasing a se-

cond hand unit. Some Mark I's have

been fitted with an official Yaesu up-

grade kit (new noise blanker fitted

on top of the VFO, new RF board,

new mixer/high frequency IF

module, plus extensive re-wiring

and modification of other boards)

and are more or less equivalent of a

Mark 2 if the work has been correct-

ly done. A few models can be fitted

with an external speech processor

and with a few small mods, a Mark 2

or B which is in good condition can

be made to out perform an un-

modified FT101E.

SOLID-STATE

VER

SOLID-STATE BREAK THROUGH 13 FET's, 3 Integrated Circuits, 27 Silicon Transistors, 38 Silicon Olodes © Computer Type Plug-in Modules

THE FT-101 FITS/ ca. camper, trailer, boat, airplan the home base, Minire, portable, or fixed, the FT-101 bits them all

Distance in the State of the second

A 12 werts DC or 117/234 vorts AC gener having plan encode-puts you on the air or au backs BO through 10 relative when di the recover more, the PT+161 draws less nurrent way a can highlic Previa another threads to one be senteded of a un by front pitre receive sented. working correct, erain to a maintum. at some staffs

mobile operation a noise blanker is mendation-the FT-161 nes III Complete with nel breakold; control, the blanker picks out noise spikss and leaves nely clean signal copy is rugged factory spiked solid-state VFD stays on trequency over the roughest reacts

Pertainity deminist topit ventils versi size, and power source flexibility. The F3-101 version pounds comprise with builting 12 Vote DD and 117,234 Vote SD vot power supress. Com solid-state construction affertia conversent transporting in outchings) style boyage.

The ET-(§1 is not only designed for mobile or ponable use, but excells as a primary to subtern The transceiver lositures high receiver sensitivity and transmits power oppable the most powerful linear amplifiers averlable today. on driving

the mean permeanal model and the second of the second seco and tion to these

The FE/tiel is fully guaranteed for unu year toutowing date of sale. Standard plug-fit modules available on an archange basis and continuing service in provided for your complete satisfact ete satis'ac

SPECIFICATIONS

CER IND W CW, CO W AN 260 W PEP Maximum Input Pow Machinem Input Power: 200 YP-0 Senditivity 0.3 Nicrowiti for 0 db 5/Ni Salechiny: 24 KHz 6 db down, 42 KHz (10 db down), 12 KHZ Machine 12 KHZ 6 db down, 42 KHz (10 db db down), 12 KHZ Machine 12 KHZ 10 db down, 10 r KHZ 10 db db down), 12 Frequency Renge: 18t c2 0, 35 fb 4.7 to 7.8, 10 to 10.5, 15 to 14.5, 21 to 21 J, 27 to 27 5, 28 to 30 (NHZ)

FREQUENCY REJECTION

GENERAL

51.50

Carrier Suppresailen: 40 db down Unavanted Sidesand: 40 db down Distortien products: 30 db down LF, and Image Ratio: 50 db down

uency Stability: Lose ther Frequency Stability: Antenne impedance: 50 to 50 Audio Outpat: 3 matte, 350-220 Devices and Tubes: 13 FET's One 128V Power Source: 12 yats DG. Power Consumption: AC: Pa DC: Re Dismensions: 13%" Weight: 30 phunds

How The FT101 Works

The FT101 uses a classic double superhet arrangement with a crystal controlled high frequency oscillator. This type of circuitry was used by many rigs of it's era, such as the TS510 and TS520 by Trio/Kenwood and the FT560 and FT401 by Yaesu to name but a few of dozens. The simplified block diagram in Fig. 2 shows the FT101 operating 15 metre band, and using this example let us follow the signal path through the transmitter.

Speak into the microphone and a few millivolts of audio are amplified by PB1315 for application to the balanced modulator circuitry on board PB1184. The output of PB1184 is a set of two sidebands. either side of a suppressed carrier at a frequency just under or just over



The first publicity blurb

1978 FT101ZD. This is entirely new design which probably was numbered "101" for marketing purposes. It is a single superhet and is basically an economy version of the FT901 from which it was presumably developed. It is an excellent piece of equipment. It is not the subject of this article.

FT10IEE as FT10IE but speech processor an optional extra. FT10IEX economy version omitting speech processor 12 volt power supply unit, microphone and fan. 160M, WWV, and three 10 metre crystals also omitted.