

**Mobiles/portables Citizen Band**

 **MIDLAND**®

# Alan 42 Multi

the high performance compact CB transceiver



**Alan 42 Multi** is a portable CB device giving the option of choosing any European CB band by means of a simple, user-friendly procedure. The equipment is supplied set to the "EC" CEPT 40CH FM 4W band. The external socket is compatible with all 2-pin accessories and is positioned at the top of the device.

## > Specifications

- **Band: Multi** (see p. 36)
- Power: 1W/4W depending on the country
- Emergency channel (EMG)
- Keypad lock (LOCK)
- Battery state indicator
- High-lower power (H-L)
- Display back-lighting button
- AM-FM command selection
- SCAN function, Dualwatch
- Antenna socket: BNC
- Powered by 8 AA batteries or 12 V
- **2-pin accessory socket**

**EXPORT VERSION: 400CH**



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## > Packs and Codes

1 radio, wall charger for 8 style battery pack, empty battery pack for 6 styles type alkaline AA, empty battery pack for 8 type AA styles for rechargeable batteries with charging socket, adapter for car use with external SO 239 antenna socket, scratch-resistant case, antenna, belt clip, wrist strap  
**C480.13**

## > Optional accessories

### Rechargeable battery pack

**PB E42 - C602**  
Empty battery pack to charge 8 type AA styles (not included)



### Spare antennas

**Ant 42 - C611**  
Antenna

**CB Flex B- C394**  
Antenna flex 53 cm



### Car adapter with socket for external antenna S0239

**R17363**



**Alan 42 is compatible with all 2-pin accessories from the PMR446/Dual band\* section (p. 25-28)**

\* excepting MA46/Kenwood accessories

# Midland 278 DS

**NEW**



**Midland 278 DS** has the important, innovative specific feature of being micro processor controlled. Midland 278DS is tuned in frequency by means of the PLL circuit, a solution that uses quartz to generate the frequencies requested, enabling greater reliability and flexibility in their control. **Midland 278 DS** is also fitted with a **"NOISE BLANKER"** device (dynamic disturbance suppressor), **ANL** function (analogic disturbance suppressor) that can considerably reduce audio disturbance, facilitating listening even when the signal is disturbed and **Automatic Digital Squelch** circuit.

## > Specifications

- **Band: Multi** (see p. 36)
- Noise Blanker System
- ANL (analogic disturbance suppressor)
- White back-lit multifunction display
- Lit buttons
- Quick channel selection: Quick Up/Down
- Scan - Squelch - Automatic Squelch
- Emergency channel



- Compact "Precision series" microphone with Up/Down/Lock buttons
- External S. Meter socket
- **6-pin microphone connector**

## > Packs and Codes

1 radio, microphone, fixing screws, mounting bracket and power lead  
**code C880.03**

# Alan 48 - 40 channels

The top selling 40-channel CB since 1986!!!



## > Specifications

- **Band: AM-FM**
- Noise Blanker System
- MIC Gain: microphone gain control to ensure modulation that is always perfect
- RF Gain: command to vary antenna pre-amplifier gain as desired
- FIL: command to adjust the intonation of the signal received
- ANL: automatic noise limiter
- Squelch

- PA: by using this switch, the equipment changes into a low frequency amplifier (with supplementary speaker)
- Blue lit front
- **Microphone connector: 4-pin**

## > Packs and Codes

1 radio, microphone, mounting bracket, fixing screws  
**code C217.02**

## Alan 199-A - 40 channels

**Alan 199-A** is a compact vehicle CB that works in AM mode. Simple and easy to use, the **Alan 199-A** enables the selection of output power and can therefore be used in all European countries permitting AM regulations.



### > Specifications

- **Band: AM**
- Display with channel display
- Up/down buttons
- Squelch
- Emergency channel 9-19
- External speaker socket
- **5-pin microphone connector**

### > Packs and Codes

1 radio, microphone, mounting bracket, fixing screws  
**code C702**



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## Alan 100 Plus B - 40 channels

**Alan 100 Plus B** is a compact device with essential functions and that is very simple to use. The practical, separate volume and squelch commands help obtain optimal reception, whilst the condenser microphone supplied guarantees excellent audio.



### > Specifications

- **Band: AM-FM**
- Emergency channels 9-19
- Channel display
- Up-Down buttons
- Squelch
- Transmission and reception LED
- External speaker socket
- **4-pin microphone connector (Alan 100 Plus B)**

### > Packs and Codes

1 radio, microphone, mounting bracket, fixing screws  
**code C442.09**



# Midland 203

**Midland 203 plus is a new low cost multi band mobile CB with great features and the latest in technical specifications:** the PLL enables a precise control of frequencies and greater stability on all channels, with separate scan controls upwards and downwards; the ceramic filters protect from interference by adjacent channels.



## > Specifications

- **Band: Multi** (the following bands only: I-EU-PL-D3, see p. 36)
- Channel display: shows the channel number used
- "AM/FM" switch
- Squelch
- CH 9-19 switch: enables immediate positioning on emergency channels 9 or 19
- Compact microphone



- External speaker socket
- **4-pin microphone connector** (R51504, see p. 41)

## > Packs and Codes

1 radio, microphone, fixing screws, mounting bracket and power lead  
**code C972**

# Alan 78 Plus Multi B

**Alan 78 Plus Multi B** is a multi-band CB that stands out for its compact dimensions and ease of use. Any European CB band can be selected, enabling it to be used in all European Community countries.



## > Specifications

- **Band: Multi** (see p. 36)
- Power: 1W/4W depending on the country
- Blue back-lit multifunction display
- "Precision series" microphone with UP/DOWN/LOCK buttons
- Squelch
- External speaker socket
- External S-meter socket
- SCAN function
- **6-pin microphone connector**

## > Packs and Codes

1 radio, microphone, mounting bracket, fixing screws  
**code C423.15**



# Alan 48 Plus Multi B

**Alan 48 Plus Multi B** is a quick and easy to use vehicle CB that enables the selection of any European CB band, meaning that it can be used in all European Community countries.



## > Specifications

- **Band:** Multi (see p. 36)
- Power: 1W/4W depending on the country
- Blue back-lit multifunction display
- "Precision series" microphone with UP/DOWN/LOCK buttons
- Squelch
- RF Gain: microphone amplification
- MIC Gain: sensitivity control in RX
- 4 memory positions
- Emergency channel
- SCAN function
- Dual watch function
- External S-meter socket
- Ext. speaker socket
- **Microphone connector: 6-pin**



## > Packs and Codes

1 radio, microphone, mounting bracket, fixing screws  
code **C422.15**

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# Midland 220

**Midland 220 is a multi band Din sized mobile CB with a forward facing speaker.** It has all the features needed plus a **7 colour LCD display** giving a clear image in all conditions. **The high technical specification includes the latest in noise suppression with our ESP2 filter.** Commands are very visible and easily reached, whilst the LCD display guarantees excellent legibility in all conditions, also thanks to the possibility of choosing up to 7 different colour variants.



## > multi-colour LCD examples



## > Specifications

- **Band:** Multi (see p. 36)
- DIN dimension
- Front speaker
- ESP2 filter for noise reduction
- Multi-colour (7 colours) LCD display
- 2 memory positions
- Emergency channel
- **Dual viewing mode (channel/frequency)**
- Mic Gain: microphone amplification control in TX
- RF Gain: sensitivity control in RX
- Squelch
- Mic up/down
- **Microphone connector: 6-pin**



## > Packs and Codes

1 radio, microphone, fixing screws, mounting bracket, **dashboard and frame for DIN dashboard** and power lead  
code **C860**

# Midland 248

**Midland 248 has the latest in Hi-spec processor control** allowing many features to be included. **Midland 248** is tuned in frequency by means of the PLL circuit, a solution that uses quartz to generate the frequencies requested, enabling greater reliability and flexibility in their control. **Midland 248** is also fitted with a "NOISE BLANKER" device (dynamic disturbance suppressor) that can reduce audio disturbance (up to 95%), facilitating listening even when the signal is disturbed.



## > Specifications

- **Band: Multi** (see p. 36)
- Noise Blanker System
- Blue back-lit multifunction display
- Lit buttons
- 4 memory positions
- RF Gain: sensitivity control in RX
- Mic Gain: microphone amplification control in TX
- Quick channel selection: Quick Up/Down
- Scan - Dual Watch - Squelch
- Emergency channel
- Compact "Precision series" microphone with Up/Down/Lock buttons
- External S. Meter socket
- **6-pin microphone connector**



## > Packs and Codes

1 radio, microphone, fixing screws, mounting bracket and power lead  
**code C879**

# Midland 248 XL

**Midland 248 XL** is fitted with "ESP2" and "NOISE BLANKER" devices (dynamic disturbance suppressors) that can reduce audio disturbance (up to 95%), facilitating listening even when the signal has interference. **Midland 248 XL** is fitted with an analogue S-Meter for the convenient display of power transmitted and signal received.



## > Specifications

- **Band: Multi** (see p. 36)
- **ESP 2:** dynamic disturbance suppressor
- Noise Blanker System
- Blue back-lit multifunction display
- Lit buttons
- 5 memory positions
- RF Gain: sensitivity control in RX
- Mic Gain: microphone amplification control in TX
- Quick channel selection: Quick up/down
- Scan - Dual Watch - Squelch
- Emergency channel
- Compact "Precision series" microphone with Up/Down/Lock buttons
- External S. Meter socket
- **6-pin microphone connector**
- **12V power supply**



## > Packs and Codes

1 radio, microphone, fixing screws, mounting bracket and power lead  
**code C892**

# Alan 8001 XT - 40 channels

MIDLAND presents the new, technologically "updated" version with SMD components, of its famous AM/FM/SSB transceiver.

**Alan 8001 XT** is the ideal communication instrument for long distance connections.



## > Specifications

- **Band: AM/FM/SSB**
- Power: AM/FM 4W, SSB 12W
- Dual viewing mode (channel/frequency)
- Microphone with UP/DOWN/LOCK buttons
- 5-figure frequency meter
- Automatic NB/ANL
- Instrument: signal/power/ROS
- Mic Gain: microphone amplification control in TX
- Antenna pre-amplifier
- Pre-prepared for ECHO
- Roger Beep/Clarifier/Rosmeter
- Ext. speaker socket
- **Microphone connector: 4-pin**

## > Packs and Codes

1 radio, microphone, mounting bracket, fixing screws  
**code C1003**

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## > Table of channels/power/band for multi equipment

| Code | Country                                     | Frequencies   |
|------|---|---------------|
| I    | Italy 40 CH AM/FM 4 Watt                    | 26.965-27.405 |
| I2   | Italy 34 CH AM/FM 4 Watt                    | 26.875-27.265 |
| D3   | Germany 80 CH FM 4 Watt<br>40 CH AM 1 Watt  | 26.565-27.405 |
| D4   | Germany 80 CH FM 4 Watt<br>40 CH AM 4 Watt  | 26.565-27.405 |
| EU   | Europe 40 CH FM 4 Watt<br>40 CH AM 1 Watt   | 26.965-27.405 |
| EC   | CEPT 40 CH FM 4 Watt                        | 26.965-27.405 |
| E    | Spain 40 CH AM/FM 4 Watt                    | 26.965-27.405 |
| F    | France 40 CH FM 4 Watt / 40 CH AM<br>4 Watt | 26.965-27.405 |

|     |  |                                      |
|-----|--|--------------------------------------|
| PL  | Poland 40 CH AM/FM 4 Watt                                  | 26.960-27.400                        |
| UK  | England 40 CH FM 4 Watt + EC (40 CH<br>FM 4Watt CEPT)      | 27.60125-27.99125 +<br>26.965-27.405 |
| UKE | England 40 CH FM 4 Watt<br>(only Alan 121 and Midland 220) | 27.60125-27.99125                    |
| UKC | 40 CH FM 4 Watt CEPT<br>(only Alan 121 and Midland 220)    | 26.975-27.405                        |

### EXPORT VERSION

|    |  |               |
|----|--|---------------|
| RU | Russia 400 CH AM/FM 4 Watt                       | 25.615-30.105 |
| PX | Poland 400 CH AM/FM 4 Watt Polish<br>frequencies | 25.610-30.100 |
| SW | Sweden 24 CH FM 4 Watt 31 MHz                    | 30.930-31.570 |



# Technical specifications



| Model                             | Alan 42 Multi                       | Midland 278 DS                                | Alan 48                 |
|-----------------------------------|-------------------------------------|---|-------------------------|
| <b>Type</b>                       | Portable multi-band CB              | Vehicle multi-band CB                         | Vehicle AM-FM CB        |
| <b>General</b>                    |                                     |   |                         |
| <b>Channels/Bands</b>             | see multi equipment table           | see multi equipment table                     | 40 AM -40 FM            |
| <b>Frequency range</b>            | 26,565 MHz-27.99125 MHz             | 26,565 MHz-27,99125 MHz                       | 26.965 - 27.405 MHz     |
| <b>Power supply voltage</b>       | 12.6 V DC $\pm$ 10%                 | 12.6 V DC $\pm$ 10%                           | 12.6 V DC $\pm$ 10%     |
| <b>Dimensions (WxHxD)/weight</b>  | 70 x 140 x 30 mm/220 g (- batt)     | 180 x 140 x 35 mm/0,850 g                     | 165 x 58 x 205 mm/1,5Kg |
| <b>Mic. connector</b>             | 2-pin                               | 6-pin   | 4-pin                   |
| <b>Receiver</b>                   |                                     |   |                         |
| <b>Sensitivity for 20dB SINAD</b> | 1.0 $\mu$ V (AM), 0.55 $\mu$ V (FM) | 0,5+1 $\mu$ V                                 | 0,5+1 $\mu$ V           |
| <b>Audio output power</b>         | 0.5W@8 $\Omega$                     | > 2W max                                      | 3W max                  |
| <b>Audio distortion</b>           | 3%@1KHz                             | < 8%@1KHz                                     | < 5%@1KHz               |
| <b>Transmitter</b>                |                                     |   |                         |
| <b>Output power</b>               | 4W                                  | 4W  | 4W                      |
| <b>Modulation</b>                 | AM 90% $\pm$ 5% / FM 2KHz           | FM: 1,8 KHz $\pm$ 0,2 KHz<br>AM: da 85% a 95% | AM100%, FM: 2KHz        |
| <b>Max. current absorbed</b>      | 900mA                               | 2500mA  | 1100mA                  |



| Model                             | Alan 199A                | Alan 100 Plus B          | Midland 203 Plus                              |
|-----------------------------------|--------------------------|--------------------------|---|
| <b>Type</b>                       | Vehicle AM CB            | Vehicle AM-FM CB         | Vehicle multi-band CB                         |
| <b>General</b>                    |                          |                          |   |
| <b>Channels/Bands</b>             | 40 AM                    | 40 AM -40 FM             | see multi equipment table                     |
| <b>Frequency range</b>            | 26.965 - 27.405 MHz      | 26.965 - 27.405 MHz      | 26,565-27,405 MHz                             |
| <b>Power supply voltage</b>       | 12.6 V DC $\pm$ 10%      | 12.6 V DC $\pm$ 10%      | 12.6 V DC $\pm$ 10%                           |
| <b>Dimensions (WxHxD)/weight</b>  | 124 x 38 x 190 mm/1.2 kg | 124 x 38 x 190 mm/1.2 kg | 124x38x190 mm/1.2 kg                          |
| <b>Mic. connector</b>             | 5-pin                    | 4-pin                    | 4-pin   |
| <b>Receiver</b>                   |                          |                          |   |
| <b>Sensitivity for 20dB SINAD</b> | < 1.0 $\mu$ V            | < 1.0 $\mu$ V            | < 1.0 $\mu$ V                                 |
| <b>Audio output power</b>         | > 2W max                 | > 2W max                 | 4 W max                                       |
| <b>Audio distortion</b>           | < 8% @ 1KHz              | < 8% @ 1KHz              | less than 8% @ 1KHz                           |
| <b>Transmitter</b>                |                          |                          |   |
| <b>Output power</b>               | 1W/4W AM                 | 100 Plus B: 4W AM-FM     | 4 W   |
| <b>Modulation</b>                 | AM: 90%                  | AM: 90%, FM: 2KHz        | FM: 1,8 KHz $\pm$ 0,2 KHz<br>AM: da 85% a 95% |
| <b>Max. current absorbed</b>      | 1100mA                   | 1100mA                   | 1100mA  |



| Model                             | Alan 78 Plus Multi B                     | Alan 48 Plus Multi B                        | Midland 220                                 |
|-----------------------------------|--|---|---|
| <b>Type</b>                       | Vehicle multi-band CB                    | Vehicle multi-band CB                       | Vehicle multi-band CB                       |
| <b>General</b>                    |  |   |   |
| <b>Channels/Bands</b>             | see multi equipment table                | see multi equipment table                   | see multi equipment table                   |
| <b>Frequency range</b>            | 26.565 - 2799125 MHz                     | 26.565 - 2799125 MHz                        | 26.565 - 2799125 MHz                        |
| <b>Power supply voltage</b>       | 12.6 V DC $\pm$ 10%                      | 12.6 V DC $\pm$ 10%                         | 12.6 V DC $\pm$ 10%                         |
| <b>Dimensions (WxHxD)/weight</b>  | 180 x 35 x 140 mm/0.850 kg               | 180 x 50 x 150 mm/1 kg                      | 170 x 52 x 170 mm/1.020 kg                  |
| <b>Mic. connector</b>             | 6-pin                                    | 6-pin                                       | 6-pin                                       |
| <b>Receiver</b>                   |  |   |   |
| <b>Sensitivity for 20dB SINAD</b> | 0.5 $\mu$ V $\pm$ 1 $\mu$ V              | 0.5+1 $\mu$ V                               | 0.5+1 $\mu$ V                               |
| <b>Audio output power</b>         | > 2W @ 8 Ohm                             | > 3W @ 8 Ohm                                | > 3W @ 8 Ohm                                |
| <b>Audio distortion</b>           | less than 8% @ 1 KHz                     | less than 8% @ 1KHz                         | less than 8% @ 1KHz                         |
| <b>Transmitter</b>                |  |   |   |
| <b>Output power</b>               | 4W                                       | 4W  | 4W  |
| <b>Modulation</b>                 | AM: 85% a 95%<br>FM: 1.8 KHz +/- 0.2 KHz | FM: 1.8 KHz +/- 0.2 KHz<br>AM: da 85% a 95% | FM: 1.8 KHz +/- 0.2 KHz<br>AM: da 85% a 95% |
| <b>Max. current absorbed</b>      | 1100mA                                   | 1100mA                                      | 1100mA                                      |



| Model                             | Midland 248                                   | Midland 248 XL                                | Alan 8001 XT  |
|-----------------------------------|---|---|---|
| <b>Type</b>                       | Vehicle multi-band CB                         | Vehicle multi-band CB                         | Vehicle AM-FM-SSB CB  |
| <b>General</b>                    |   |   |   |
| <b>Channels/Bands</b>             | see multi equipment table                     | see multi equipment table                     | 40 CH/AM/FM/USB/LSB   |
| <b>Frequency range</b>            | 26,565-27.99125 MHz                           | 26,565-27.99125 MHz                           | 26.965 - 27.405 MHz   |
| <b>Power supply voltage</b>       | 12.6 V DC $\pm$ 10%                           | 12.6 V DC $\pm$ 10%                           | 12.6 V DC $\pm$ 10%   |
| <b>Dimensions (WxHxD)/weight</b>  | 180x50x150 mm/1 kg                            | 150x45x175 mm/1 kg                            | 200x60x235 mm/1.9 kg  |
| <b>Mic. connector</b>             | 6-pin   | 6-pin   | 4-pin   |
| <b>Receiver</b>                   |   |   |   |
| <b>Sensitivity for 20dB SINAD</b> | 0.5 $\mu$ V (AM/FM)                           | 0.5 $\mu$ V (AM/FM)                           | SSB: 0,25 $\mu$ V per 10 dB (S+N)/N;<br>AM: 0,6 $\mu$ V per 20 dB (S+N)/N;<br>FM: 0,6 $\mu$ V per 20 dB (S+N)/N |
| <b>Audio output power</b>         | > 3W @ 8 Ohm                                  | > 3W @ 8 Ohm                                  | 4 watt@ 8 ohm   |
| <b>Audio distortion</b>           | less than 8% @ 1KHz                           | less than 8% @ 1KHz                           | less than 8% @ 1KHz   |
| <b>Transmitter</b>                |   |   |   |
| <b>Output power</b>               | 4 W   | 4 W   | SSB: 12W - FM: 4W - AM: 4W  |
| <b>Modulation</b>                 | FM: 1,8 KHz $\pm$ 0,2 KHz<br>AM: da 85% a 95% | FM: 1,8 KHz $\pm$ 0,2 KHz<br>AM: da 85% a 95% | FM: 1,8 KHz $\pm$ 0,2 KHz<br>AM: da 85% a 95%   |
| <b>Max. current absorbed</b>      | 2500mA  | 2500mA  | 2500mA  |

## Accessories

### Speakers



Also suitable  
for outdoor use

**Midland 70-2355T code C733**



**AU 20 code T775**



**AU 25 code T681**



**AU 30 code T682**



Also suitable  
for outdoor use

**EH 800 code P348**

| Specifications | Midland 70-2355T | AU 20    | AU 25     | AU 30      | EH 800    |
|----------------|------------------|----------|-----------|------------|-----------|
| Impedance      | 3.2 Ohms         | 8 Ohms   | 8 Ohms    | 8 Ohms     | 8 Ohms    |
| Rated power    | 2 W              | 2 W      | 3 W       | 7 W        | -         |
| Maximum power  | 20 W             | 5 W      | 5 W       | 12 W       | 10 W      |
| Size in mm     | 123x123x62       | 65x55x65 | 100x60x60 | 110x140x60 | 90x85x110 |

### Switching power supplies

The new power supplies protected from short-circuit that can be used for radio applications and in electronics laboratories.



NEW

**K45S - code C1024**



NEW

**K75S - code C1025**



NEW

**K105S - code C1026**

| Specifications       | K45S             | K75S              | K105S             |
|----------------------|------------------|-------------------|-------------------|
| Input voltage        | 230V AC-50Hz     | 230V AC-50Hz      | 230V AC-50Hz      |
| Output voltage       | 13.8V DC         | 13.8V DC          | 13.8V DC          |
| Rated output current | 3A               | 7A                | 10A               |
| Peak current         | 5A               | 9A                | 12A               |
| Size                 | 75 x 111 x 177mm | 102 x 150 x 223mm | 102 x 152 x 223mm |
| Weight               | 0.900 kg         | 1.400 kg          | 1.500 kg          |

### Microphone with echo

**MIDLAND F48**  
**code C1022**

4-pin connector for  
Alan 48, Alan 68S,  
Midland 8001 XT



**NEW**

### Microphone with echo

**MIDLAND F100**  
**code C1021**

4-pin connector for  
Alan 100 Plus B  
Midland 200  
Midland 203



**NEW**

### Microphone with echo

**MIDLAND F MULTI**  
**code C1023**

6-pin connector for  
Multi Standard CB radio



**NEW**

### Electret microphone

**MR120**  
**code C404.01**

with up/down buttons 6-pin connector for series  
Plus Multi, Excel, Midland 248, 248 XL, 278,  
Alan 121 and Midland 220  
(no channel change).



### Microphone for Alan 48, Alan 68S

**Midland - code T059**

Original Alan 48, Alan 68S, 8001XT  
4-pin connector



### "Precision series" microphone

**Mike Multi - code C714**

Up/down buttons (channel selection up/down)  
Lock button (microphone up/down keypad lock)  
6-pin connector  
for series Plus Multi, Excel,  
Midland 248, 248 XL, 278,  
Alan 121 and Midland 220  
(no channel change).



### "Old style" microphone with metal mesh

**SE (Special Edition) mike**  
**code C870**

4-pin connector for  
Alan 48, Alan 68S

**code C870.01**

6-pin connector for the  
series Plus Multi, Excel,  
Alan 121 and Midland 220, 248,  
248 XL, 278



### Original microphone for Alan 48, Alan 68S

**MDL4190 - code C074**

Impedance 500 Ohm  
4-pin connector for Alan 48,  
Alan 68S, 8001XT



## Microphone Alan 100 Plus B/Midland 203



**code R51504**  
4-pin connector,  
for Alan 100 Plus B,  
Midland 203



## Original Alan 100 Plus/199-A microphone



**code R17332**  
5-pin connector  
for Alan 100 Plus,  
Alan 100 Plus Euro  
and Alan 199-A



## Microphone-holder

### PM3 - code T431

with screw fastening and bi-adhesive



### PMF - code T570

with screw fastening and bi-adhesive, fluorescent



## Power lead

### T060

3-pole lead with fuse-holder  
Length: 160 cm



## Brackets

### SU 29 - code T452

Practical sliding mount for the removal of your transceivers.  
Compatible with all vehicle CBs



### SA 48 - code T769

Complete with 1 bracket, 2 slides, 2 handles, 2 screws  
Compatible with Alan 48, 68S



### SPM-48 DIN - code C791

DIN bracket for Alan 48 Plus Multi B/Excel Multi,  
Midland248/248XL



### SPM-78 DIN - code C792

DIN bracket for Alan 78 Plus Multi B, Midland 278



### SPM-100 DIN - code C807

DIN bracket for Alan 100 Plus,100 Plus Euro, Alan 100 Plus B,  
199-A, Midland 203



## Broad band SWR meter wattmeter

### KW 520 code C530

Suitable for checking transmitter power and antenna adaptation,  
with two separate measuring lines, one from 1.8 to 200 MHz and  
the other from 140 to 525 MHz.

This enables the simultaneous connection of 2 systems:  
one in HF/VHF and the other in VHF/UHF and select which to  
use to take the measurements with the specific switch. The  
measurement line selected is seen by the specific LED. With the  
possibility of measuring peak or medium value > Fine calibration  
of the index > Base scale duplicator button of power from 200 to  
400 W



### Specifications

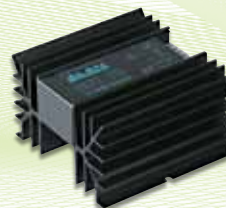
|                 |                             |
|-----------------|-----------------------------|
| RF power        | 5W - 20W - 200W - 400W      |
| R.O.S.          | 1.1 / ∞                     |
| Impedance       | 52 Ohms                     |
| Frequency range | 1.8 200 MHz - 140 - 525 MHz |
| Precision       | ROS - PWR 5%                |
| Size            | 155x100x60mm                |
| Weight          | 730 g                       |
| Connector       | S0239                       |

## Voltage reducers



**RDT 11/S code C786**

Switching technology AUTOMOTIVE approval no.: 10R-026170



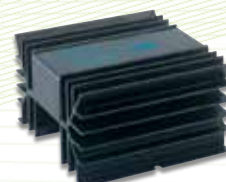
**RDT 10/A code C589**

AUTOMOTIVE approval no.: E3 02 1049



**RDT 16/S code C787**

Switching technology AUTOMOTIVE approval no.: 10R-026171



**RDT 14/A code C531**

AUTOMOTIVE approval no.: E3 02 1050



**RDT 20/S code C788**

Switching technology AUTOMOTIVE approval no.: 10R-026172



**RDT 30/R code T674**

AUTOMOTIVE approval no.: E3 02 1051

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| Specifications        | RDT 11/S         | RDT 16/S         | RDT 20/S         | RDT 10/A   | RDT 14/A   | RDT 30/R   |
|-----------------------|------------------|------------------|------------------|------------|------------|------------|
| Switching technology  | Yes              | Yes              | Yes              | No         | No         | No         |
| Input voltage         | 20-30 V DC       | 20-30 V DC       | 20-30 V DC       | 24-28 V DC | 24-28 V DC | 24-28 V DC |
| Output voltage        | 13.5 +/- 0.5V DC | 13.5 +/- 0.5V DC | 13.5 +/- 0.5V DC | 13.8 V DC  | 13.8 V DC  | 13.8 V DC  |
| Dimensions (HxWxD)    | 35x75x160        | 35x105x170       | 40x115x200       | 64x120x112 | 64x120x112 | 40x102x300 |
| Weight                | 387 g            | 554 g            | 782 g            | 670 g      | 580 g      | 1,200 g    |
| Output specifications |                  |                  |                  |            |            |            |
| Continuous            | 8 A              | 12 A             | 18 A             | 6 A        | 6 A        | 10 A       |
| 6'/3'                 | -                | -                | -                | 10 A/-     | 8 A/-      | 15 A/20 A  |
| Max. peak             | 10 A/15 min      | 16 A/15 min      | 20 A/15 min      | 10 A       | 10 A       | 30 A       |

## HF power amplifier AM-FM-SSB-CW (for amateur use only)



**HF 747 code C882**

| Specifications   |                    |
|------------------|--------------------|
| Frequency        | HF                 |
| Power supply     | 12-14V DC          |
| Current absorbed | 14-20A             |
| Input power      | 1-5W               |
| Input power SSB  | 2-10W              |
| Output power     | max. 150W          |
| Output power SSB | max. 300W pep      |
| Mode             | AM-FM-SSB-CW       |
| Fuse             | 2x12A              |
| Size/Weight      | 109x210x35mm/ 605g |