















Established in 1976 Barrett Communications designs, manufactures and markets HF and VHF radio equipment for specialised, autonomous, medium and long distance radio communications. HF and VHF radio communications is "free to air"; having no recurring usage charges once the communications network has been installed.

Barrett radio networks are capable of providing voice, email, data, fax, and tracking solutions for fixed base station, mobile and manpack portable applications. Our global distribution and customer support network provides easy access and backup for our customer base in over 150 countries globally.

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**Notes:-**

1. Specifications are typical. Equipment descriptions and specifications are subject to change without notice or obligation
2. For complete technical specifications please refer to your business development manager
3. Net weights provided are indicative and are subject to variation, they are provided as guide for operational use of products only.  
Packed weight will be determined based on orders once received and as such are not indicated in this catalogue.

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# **4000 Series HF Transceivers**

## 4050ip HF SDR Transceiver

### Standard features:-

- 1000 channels with frequency range 1.5 to 30 MHz
- 500 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)
- Digital Selective Calling
- GPS enabled (Hardware required)
- Ethernet (IP) connection via RJ45 socket

### Optional features include:-

- 2G ALE
- 3G ALE
- Secure call
- Frequency hopping
- Digital voice
- Secure Digital Voice & GPS Push
- ARINC
- GPS Push

### Notes:-

- For Base/Mobile configuration See P/N BC405010/11ip
- AC/DC power supply (BC402201 DDN3726A) and Rack Mounting kits need to be ordered separately
- See brochure & catalogue accessories for more detailed information.

### Includes:-

- 1 4050ip HF SDR Transceiver
- 2 Hand microphone and clip with channel up/down buttons
- 3 Loudspeaker
- 4 DC power cable and connector - 1.2 metres
- 5 Barrett 4050 Operation and installation manual

Barrett P/ N	MSI P/N	Net Weight
BC405000ip	TT4449A	



1	4050ip HF SDR Transceiver	BC405000ip	TT4449A	
2	Hand microphone and clip with channel up/down buttons	BCA40010	DDN3620A	
3	Loudspeaker	BCA40015	DDN3621A	
4	DC power cable and connector - 1.2 metres	BCA40041	DDN3812A	
5	Barrett 4050 Operation and installation manual	BCM40500	DDN3725A	

## 4050ip HF SDR Base Station Package

### Standard features:-

- 1000 channels with frequency range 1.5 to 30 MHz
- 500 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)
- Digital Selective Calling
- GPS enabled (Hardware required)
- Ethernet (IP) connection via RJ45 socket

### Optional features include:-

- 2G ALE
- 3G ALE
- Secure call
- Frequency hopping
- Digital voice
- Secure Digital Voice & GPS Push
- ARINC
- GPS Push

**Note:-** See brochure & catalogue accessories for more detailed information.

### Includes:-

- 1 4050ip HF SDR Transceiver
- 2 4022 Power supply
- 3 Hand microphone and clip with channel up/down buttons
- 4 Power supply stacking cradle
- 5 Barrett 4050 Operation and installation manual

Barrett P/ N	MSI P/N	Net Weight
BC405010ip	TT4312A	



1	405000ip	TT4449A	
2	BC402201	DDN3726A	
3	BCA40010	DDN3620A	
4	BCA40016	DDN3729A	
5	BCM40500	DDN3725A	



## 4050ip HF SDR Mobile Station Package

### Standard features:-

- 1000 channels with frequency range 1.5 to 30 MHz
- 500 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)
- Digital Selective Calling
- GPS enabled (Hardware required)
- Ethernet (IP) connection via RJ45 socket

### Optional features include:-

- 2G ALE
- 3G ALE
- Secure call
- Frequency hopping
- Digital voice
- Secure Digital Voice & GPS Push
- ARINC
- GPS Push

**Note:-** See brochure & catalogue accessories for more detailed information.

### Includes:-

- 1 4050ip HF SDR Transceiver
- 2 Hand microphone and clip with channel up/down buttons
- 3 Loudspeaker
- 4 DC power cable and connector - 6 metres
- 5 Mobile Pack
- 6 Barrett 4050 Operation and installation manual

Barrett P/ N	MSI P/N	Net Weight
BC405011ip	TT4349A	



1	4050ip HF SDR Transceiver	BC405000ip	TT4449A	
2	Hand microphone and clip with channel up/down buttons	BCA40010	DDN3620A	
3	Loudspeaker	BCA40015	DDN3621A	
4	DC power cable and connector - 6 metres	BCA40006	DDN3773A	
5	Mobile Pack	BCA40501	DDN4040A	
6	Barrett 4050 Operation and installation manual	BCM40500	DDN3725A	

## 4050wb HF SDR Transceiver

### Standard features:-

- Supports MIL-STD 188-141D wideband signals up to 24kHz and data rates up to 120kbps
- 1000 channels with frequency range 1.5 to 30 MHz
- 500 contact entries
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)
- Syllabic mute, signal strength mute
- Ethernet (IP) connection via RJ45 socket

### Optional features include:-

- 2G ALE
- 3G ALE
- Secure call
- Frequency hopping
- Digital voice
- Secure Digital Voice & GPS Push
- ARINC
- GPS

### Notes:-

- Requires third party external wideband modem for Wideband data functionality
- Loudspeaker, AC/DC power supply and Rack Mounting kits need to be ordered separately.
- See brochure & catalogue accessories for more detailed information.

### Includes:-

- 1 4050wb HF SDR Transceiver
- 2 DC power cable and connector - 1.2 metres
- 3 Barrett 4050 Wideband Operation and installation manual

Barrett P/ N	MSI P/N	Net Weight
BC405024wb	TT4494A	



1	4050wb HF SDR Transceiver	BC405024wb	TT4494A
2	DC power cable and connector - 1.2 metres	BCA40041	DDN3812A
3	Barrett 4050 Wideband Operation and installation manual	BCM40509	DDN4403A

## 4050ip HF SDR (Receiver only)

### Standard features:-

- 1000 channels with frequency range 1.5 to 30 MHz
- 500 contact entries
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)
- Syllabic mute, signal strength mute
- 600 ohm audio output with software level control
- 600 ohm audio output can be set to follow selected mutes
- Frequency stability  $\pm 10$  Hz -30°C to +60°C
- Ethernet (IP) connection via RJ45 socket

### Optional features include:-

- 2G ALE
- 3G ALE
- Secure call
- Frequency hopping
- Digital voice
- Secure Digital Voice & GPS Push
- ARINC
- GPS

### Notes:-

- Loudspeaker, AC/DC power supply and Rack Mounting kits need to be ordered separately.
- See brochure & catalogue accessories for more detailed information.

### Includes:-

- 1 4050ip HF SDR Receiver
- 2 DC power cable and connector - 1.2 metres
- 3 Barrett 4050 Operation and installation manual

Barrett P/ N

MSI P/N

Net Weight

BC405001ip

TT4672A



BC405001ip

TT4672A

BCA40041

DDN3812A

BCM40500

DDN3725A

## 4050ip HF SDR Transceiver with Control Handset

### Standard features:-

- 1000 channels with frequency range 1.5 to 30 MHz
- 500 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)/ISB (Data)
- Digital Selective Calling
- GPS enabled (Hardware required)
- Ethernet (IP) connection via RJ45 socket

### Optional features include:-

- 2G ALE
- 3G ALE
- Secure call
- Frequency hopping
- Digital voice
- Secure Digital Voice & GPS Push
- ARINC

### Notes:-

- For Mobile configuration See P/N BC405012ip TT4330A
- AC/DC power supply (BC402201 DDN3726A) and Rack Mounting kits need to be ordered separately
- For WiFi connectivity, Interface Pack C (P/N 4090-01-27, DDN3552A) required.
- See brochure & catalogue accessories for more detailed information.

### Includes:-

- 1 4050ip HF SDR Transceiver body
- 2 4050 Control Handset
- 3 4050 Control Handset Interface Cable (5m)
- 4 Loudspeaker
- 5 DC power cable and connector - 6 metres
- 6 Magnetic Car Mount
- 7 Barrett 4050 Operation and installation manual

Barrett P/ N	MSI P/N	Net Weight
BC405002ip	TT4374A	



BC405002ip	TT4374A
BCA40500	DDN3789A
BCA40502	DDN4097A
BCA40015	DDN3621A
BCA40006	DDN3773A
BCA40507	DDN4397A
BCM40500	DDN3725A



## 4050ip HF SDR Transceiver with Control Handset Mobile Station package

### Standard features:-

- 1000 channels with frequency range 1.5 to 30 MHz
- 500 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)/ISB (Data)
- Digital Selective Calling
- GPS enabled (Hardware required)
- Ethernet (IP) connection via RJ45 socket

### Optional features include:-

- 2G ALE
- 3G ALE
- Secure call
- Frequency hopping
- Digital voice
- Secure Digital Voice & GPS Push
- ARINC

### Notes:-

- AC/DC power supply (BC402201 DDN3726A) and Rack Mounting kits need to be ordered separately
- For WiFi connectivity, Interface Pack C (P/N 4090-01-27, DDN3552A) required.
- See brochure & catalogue accessories for more detailed information.

### Includes:-

- 1 4050ip HF SDR Handset Control Transceiver
- 2 4050 Control Handset
- 3 4050 Control Handset Interface Cable (5m)
- 4 Loudspeaker
- 5 DC power cable and connector - 6 metres
- 6 Installation Kit
- 7 Universal Mounting Cradle
- 8 Magnetic Car mount
- 9 Barrett 4050 Operation and installation manual

Barrett P/ N	MSI P/N	Net Weight
BC405012ip	TT4330A	



BC405002ip	TT4374A
BCA40500	DDN3789A
BCA40502	DDN4097A
BCA40015	DDN3621A
BCA40006	DDN3773A
BCA40004	DDN3602A
BCA40003	DDN3774A
BCA40507	DDN4397A
BCM40500	DDN3725A

## 4050se HF SDR Transceiver

### Standard features:-

- 200 channels with frequency range 1.5 to 30 MHz
- 300 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)
- Digital Selective Calling
- GPS enabled (Hardware required)

### Optional features include:-

- 2G ALE
- Secure call
- Frequency hopping
- Digital voice
- Secure Digital Voice & GPS Push
- ARINC
- GPS Push
- IP Connectivity (via USB only)

### Notes:-

- For Base/Mobile configuration See P/N BC405010/11se
- AC/DC power supply (BC402201 DDN3726A) and Rack Mounting kits need to be ordered separately
- See brochure & catalogue accessories for more detailed information.

### Includes:-

- 1 4050se HF SDR Transceiver
- 2 Hand microphone and clip with channel up/down buttons
- 3 Loudspeaker
- 4 DC power cable and connector - 1.2 metres
- 5 Barrett 4050 Operation and installation manual

Barrett P/ N	MSI P/N	Net Weight
BC405000se	TT4798A	



1	4050se HF SDR Transceiver	BC405000se	TT4798A	
2	Hand microphone and clip with channel up/down buttons	BCA40010	DDN3620A	
3	Loudspeaker	BCA40015	DDN3621A	
4	DC power cable and connector - 1.2 metres	BCA40041	DDN3812A	
5	Barrett 4050 Operation and installation manual	BCM40500	DDN3725A	

## 4050se HF SDR Base Station Package

Barrett P/ N	MSI P/N	Net Weight
BC405010se	TT4546A	

### Standard features:-

- 200 channels with frequency range 1.5 to 30 MHz
- 300 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)
- Digital Selective Calling
- GPS enabled (Hardware required)

### Optional features include:-

- 2G ALE
- Secure call
- Frequency hopping
- Digital voice
- Secure Digital Voice & GPS Push
- ARINC
- GPS Push
- IP Connectivity (via USB only)

**Note:-** See brochure & catalogue accessories for more detailed information.



### Includes:-

- 1 4050se HF SDR Transceiver
- 2 4022 Power supply
- 3 Hand microphone and clip with channel up/down buttons
- 4 Power supply stacking cradle
- 5 Barrett 4050 Operation and installation manual

BC405000se	TT4798A
BC402201	DDN3726A
BCA40010	DDN3620A
BCA40016	DDN3729A
BCM40500	DDN3725A



## 4050se HF SDR Mobile Station Package

### Standard features:-

- 200 channels with frequency range 1.5 to 30 MHz
- 300 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)
- Digital Selective Calling
- GPS enabled (Hardware required)

### Optional features include:-

- 2G ALE
- Secure call
- Frequency hopping
- Digital voice
- Secure Digital Voice & GPS Push
- ARINC
- GPS Push
- IP Connectivity (via USB only)

**Note:-** See brochure & catalogue accessories for more detailed information.



### Includes:-

- 1 4050se HF SDR Transceiver
- 2 Hand microphone and clip with channel up/down buttons
- 3 Loudspeaker
- 4 DC power cable and connector - 6 metres
- 5 Mobile Pack
- 6 Barrett 4050 Operation and installation manual

Barrett P/ N	MSI P/N	Net Weight
BC405011se	TT4756A	

BC405000se	TT4798A	
BCA40010	DDN3620A	
BCA40015	DDN3621A	
BCA40006	DDN3773A	
BCA40501	DDN4040A	
BCM40500	DDN3725A	



## 4050se HF SDR Transceiver with Control Handset Mobile Station package

### Standard features:-

- 200 channels with frequency range 1.5 to 30 MHz
- 300 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)/ISB (Data)
- Digital Selective Calling
- GPS enabled (Hardware required)

### Optional features include:-

- 2G ALE
- Secure call
- Frequency hopping
- Digital voice
- Secure Digital Voice & GPS Push
- ARINC
- IP Connectivity (via USB only, requires Interface Pack C P/N 4090-01-27, DDN3552A)

### Notes:-

- AC/DC power supply (BC402201 DDN3726A) and Rack Mounting kits need to be ordered separately
- See brochure & catalogue accessories for more detailed information.

### Includes:-

- 1 4050se HF SDR Handset Control Transceiver
- 2 4050 Control Handset
- 3 4050 Control Handset Interface Cable (5m)
- 4 Loudspeaker
- 5 DC power cable and connector - 6 metres
- 6 Installation Kit
- 7 Universal Mounting Cradle
- 8 Magnetic Car Mount
- 9 Barrett 4050 Operation and installation manual

Barrett P/ N	MSI P/N	Net Weight
BC405012se	TT4616A	



BC405002se	TT4980A
BCA40500	DDN3789A
BCA40502	DDN4097A
BCA40015	DDN3621A
BCA40006	DDN3773A
BCA40004	DDN3602A
BCA40003	DDN3774A
BCA40507	DDN4397A
BCM40500	DDN3725A

## 4090 HF SDR manpack package

### Standard features:-

- 1000 channels with frequency range 1.5 to 30 MHz
- Power output 10 - 30 W PEP, power input 22 VDC nominal
- Software defined core & DSP
- Digital Selective Calling & Telcall - 4 & 6 digit
- GPS & RS232 interface
- Meets MIL-STD 810G for shock, temperature, vibration, dust and immersible to 1 m for 1 hr

### Optional Features\*:-

- ECCM Options (COMSEC/TRANSEC)
  - MILSTD 188-141B ALE (JITC certified)
  - Internal fit high speed modem
- \* For additional options and accessories, please see relevant section detail.

**Note:-** See brochure for more detailed information.  
 - IEC mains cord (UK, European, AUS and US style\* Selected at point of order)

### Includes:-

- 4090 HF Tactical manpack transceiver
- 4090 Control handset
- 4090 Handset Cradle and Molle strap
- Control Handset cable 1.2 metres
- 4090 Li-ion Battery Pack 16Ah
- Collapsible Whip 3m - for 4090
- Gooseneck - for 4090
- Counterpoise earth kit - single wire
- Long wire throw out antenna
- AC/DC Mains Adapter for use with 4090-03-05 Battery Pack
- Daypack - colour black
- 4090 operating and installation manual

Barrett P/ N	MSI P/N	Net Weight
BC409002	TT4307A	



1	4090 HF Tactical manpack transceiver	BC409001	TT4838A	
2	4090 Control handset	BCA409001	DDN3591A	
3	4090 Handset Cradle and Molle strap	4090-05-04	DDN3765A	
4	Control Handset cable 1.2 metres	4090-01-12	DDN3767A	
5	4090 Li-ion Battery Pack 16Ah	BCA409005	TT4368A	
6	Collapsible Whip 3m - for 4090	4090-02-10	DDN3759A	
7	Gooseneck - for 4090	4090-02-11	DDN3760A	
8	Counterpoise earth kit - single wire	4090-02-09	DDN3761A	
9	Long wire throw out antenna	4090-02-06	DDN3618A	
10	AC/DC Mains Adapter for use with 4090-03-05 Battery Pack	4090-03-04	DDN3762A	
11	Daypack - colour black	4090-01-37	DDN4325A	
12	4090 operating and installation manual	BCM409000	DDN4404A	

## 4090 HF SDR Tactical transceiver

Barrett P/ N

MSI P/N

Net Weight

BC409001

TT4838A

### Standard features:-

- 1000 channels with frequency range 1.5 to 30 MHz
- Power output 10 - 30 W PEP, power input 22 VDC nominal
- Software defined core & DSP
- Digital Selective Calling & Telcall - 4 & 6 digit
- GPS & RS232 interface
- Meets MIL-STD 810G for shock, temperature, vibration, dust and immersible to 1 m for 1 hr



### Optional Features\*:-

- ECCM Options (COMSEC/TRANSEC)
- MILSTD 188-141B ALE (JITC certified)
- Internal fit high speed modem

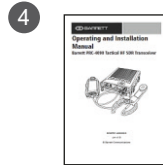
\* For additional options and accessories, please see relevant section detail.

**Note:-** See brochure for more detailed information.

- Battery not included in this package.

### Includes:-

- 1 4090 HF Tactical manpack transceiver
- 2 4090 Control handset
- 3 Control handset cable 1.2 metres
- 4 Barrett 4090 operation and installation manual



BC409001

TT4838A

BCA409001

DDN3591A

4090-01-12

DDN3767A

BCM409000

DDN4404A

# **Hardware and Software Options**

Barrett P/ N

MSI P/N

Net Weight

**2G Automatic link establishment (ALE)**

4090-01-03

TT4308A

MIL-STD 188-141B 2G / FED-STD 1045 ALE

**Includes:-**

- 2G/3G ALE Operation manual P/N BCM40524

**Note:-** When using ALE at least one ALE fill program is required by the system administrator to set up the ALE network - this fill program is included in the 4000 Series programming kit P/N 4090-01-30, DDN3609A.

Internal Fit


**3G Automatic link establishment (ALE)**

4090-01-04

TT4352A

3rd generation to STANAG 4538.

Incorporates 3G+ (capability to send and receive calls and messages to 3G and 2G transceivers)

**Includes:-**

- 2G/3G ALE Operation manual P/N BCM40524

**Note:-** One transceiver must be fitted with GPS per network to allow ALE3G synchronous operation.

Internal Fit


**Secure call**

4090-01-02

DDN3693A

A point to point or point to multipoint Secure call system initiated a secure call selcall.

Internal Fit



	Barrett P/ N	MSI P/N	Net Weight
<b>Frequency hopping</b>	4090-01-01	TT4310A	

5 or 25 hops per second - no central synchronisation station, no net entry delay or late entry delay.

**Notes:-**

- ESU/GPS to be purchased separately.
- Requires an Australian Government Export Licence.



<b>Digital voice module: DV</b>	4090-01-42	DDN3811A	
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Digital Voice Vocoder Module 700/1200/2400 bps

**Includes:-**

- "TWELP" Vocoder
- Clear Digital Voice
- HF Internal digital voice operation manual P/N BCM40504



**Notes:-**

- Factory internal fit only
- Does not include encryption
- Can be implemented with Mil Data standards
- Can be implemented alongside Clover Data (External fit)

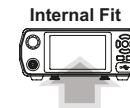
<b>Free Scroll Tx/Rx</b>	4090-01-28	DDN3598A	
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Allows voice transmission while using the Free Scroll Rx feature of Barrett 4050 and 4090 transceivers.



<b>Remote Access Option</b>	BCO40530se	DDN4317A	
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Used with the 4050se model, this option allow use with software such as Barrett 4000 Series Remote Control Software and external accessories such as the 4020 HF Radio Mailbox.



Barrett P/ N

MSI P/N

Net Weight

**Secure digital voice module with DES 56 encryption - SDV-56**

4090-01-41

TT4369A

Secure digital voice module auto vocoder 700/1200/2400 with DES 56 encryption


**Includes:-**

- "TWELP" Vocoder
- Clear Digital Voice
- HF Internal digital voice operation manual P/N BCM40504

**Notes:-**

- Factory internal fit only
- This option requires key management and configuration load software P/N 4090-01-51 DDN3610A for 4050,
- Can be implemented with Mil Data standards
- This option does not require an Australian Government Export Licence


**Secure digital voice module with AES 256 encryption - SDV-256**

4090-01-40

TT4309A

Secure digital voice module auto vocoder 600/1200/2400 with AES 256 encryption


**Includes:-**

- "TWELP/MELP" Vocoder to be specified at time of order
- Clear Digital Voice
- HF Internal digital voice operation manual P/N BCM40504

**Notes:-**

- Factory internal fit only
- This option requires key management and configuration load software P/N 4090-01-50 DDN3612A for 4050,
- Can be implemented with Mil Data standards
- This option requires an Australian Government Export Licence


**HF Encryption Interface F - FIPS 140-03 Level 3 AES256**

4090-04-10

DDN4211A

Internal Hardware fit module that provides FIPS Level 3 compatible encryption.


**Requires:-**

- GPS Receiver



	Barrett P/ N	MSI P/N	Net Weight
<b>KVL Adapter Cable for 4050</b>	BCA40512	DDN4324A	

Key loading cable used to connect the Motorola KVL adapter cable (TKN8531) to a Barrett 4050 HF SDR Transceiver for the loading of keys.



<b>Key Management and Configuration Load software DES 56</b>	4090-01-51	DDN3610A	0.02 kg
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For use with SDV-56 - P/N 4090-01-41, TT4369A

**Includes:-**

- Key Management and Configuration Load - DES 56 software P/N BCUSB40521



**Note: Interface Pack Required  
See Page 31**

<b>Key Management and Configuration Load software AES 256</b>	4090-01-50	DDN3612A	0.02 kg
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For use SDV-256 - P/N 4090-01-40, TT4309A

**Includes:-**

- Key Management and Configuration Load - AES 256 software P/N BCUSB40520



**Note: Interface Pack Required  
See Page 31**

<b>Wifi Adaptor</b>	BCO40508	DDN3555A	0.01 kg
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This option enables you to use external devices such as tablets and smartphones to control the transceiver using Barrett apps (iOS / Android).



**Includes:-**

- 4000 Series IP Connectivity Networking Guide P/N BCM40507
- Penguin WiFi adaptor



<b>ARINC Selcall encoder</b>	BCO40509	DDN3724A	
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Enables transmission of aviation ARINC standard selcall.



	Barrett P/ N	MSI P/N	Net Weight
4000 Series HF Remote Control Software (Windows)	BCO40516	DDN3543A	0.80 kg

Enable you to control your transceiver from your Windows desktop computer.

**Includes:-**

- 4000 Series Remote Control Software for Windows on USB
- Desktop microphone P/N BCA40017
- Desktop headphone P/N BCA40018



**Note:-** Remote access option must be enabled.



4000 Series HF Programming Software	4090-01-30	DDN3609A	0.02 kg
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**Includes:-**

- Software (Operating manual included on the USB) P/N USB-40001

**Note: Interface Pack Required**  
See Page 31

**Note:-** Remote access option recommended for remote configuration to 4000 Series HF Programming Software.



4077 HF Map & Track	BC407700	TT4334A	0.02 kg
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**Includes:-**

- 4077 HF Map & Track Software on USB
- 4077 HF Map & Track Manual P/N BCM407700

**Note: Interface Pack Required**  
See Page 31

**Note:-** Compatible with 4050 transceivers

**Requires:-**

- GPS Receiver
- GPS Push Option



Barrett P/ N

MSI P/N

Net Weight

**GPS Push**

4090-01-48

DDN3608A

Enables the 4050/4090 to automatically push GPS transmissions to a receiver program such as 4077 HF Map & Track.


**Encryption Interface Module E**

BCO40520

DDN4354A

Internal Hardware fit module that provides a second audio interface for red/black separated audio systems. Allows for systems integration of external encryption devices with red/black separated audio interfaces.


**External Independent Sideband Interface Module**

BCO40521

DDN4230A

Internal Hardware fit module that provides a second audio interface for independent sideband systems. Allows for systems integration of external devices that generate independent sideband signals (ISB).



# **HF Data Transmission Options**

Barrett P/ N

MSI P/N

Net Weight

**RC-50B Strategic Email System**
**4090-04-66**
**TT4381A**
**0.25 kg**

4027 RC50-B STANAG 5066 Email is designed for operator requiring interoperability with existing 2nd generation HF Email networks. STANAG 5066 ARQ and the MILSTD-188-110B compliant data modem provides standardised Email transmission over HF networks. Email messages are sent and received using well known email clients such as MS Outlook™.

**Note: Interface Pack Required  
See Page 31**

**Includes:-**

- PC Software for 4027 RC50-B STANAG 5066 Email

**Notes:-**

- **Requires** HF MIL 110B Stanag 4539 9600bps Modem
- Requires 2G ALE - Automatic Link Establishment option for Link set up P/N 4090-01-04, TT4352A
- Requires 3.0 kHz bandwidth selection for 9600bps operation
- Does NOT include encryption as standard - See option P/N 4090-01-41 TT4369A


**RoHS**
**4038 3G TAC Message Software (Win)**
**4090-04-38**
**TT4372A**
**0.25 kg**

4038 3G TAC Message is designed with strategic and naval HF operators in mind. 4038 3G TAC Message provides HF communications with a familiar smartphone-like user experience on a PC or Laptop. Chat Messaging and File Transfer are available from a convenient and easy to use interface. Email messages can be sent and received using well known email clients such as MS Outlook™. Data communications on the HF network benefit from the robust STANAG 4538 3G packet modem.

**Note: Interface Pack Required  
See Page 31**

**Includes:-**

- PC Software for 4028 3G TAC Message
- Barrett 3G System Configuration Software
- Key Management Software
- System Configuration Software
- Configuration Load Software

**Notes:-**

- Requires 3G HF Packet Data modem (9600bps) P/N 4090-04-04, TT4357A
- Requires 4090-01-04 3G ALE - Automatic Link Establishment option for Link Set up
- See also 4090-01-56 DES/AES Encryption options


**RoHS**

	Barrett P/ N	MSI P/N	Net Weight
4078 3G TAC Command Software (Win)	4090-04-78	DDN3695A	0.25 kg

4078 3G TAC Command is designed with military commanders in mind. The software is designed for touch-screens and lends itself to be used on rugged tablets. Situational Awareness using NATO standardised symbols provides the operator with a view of friendly unit positions (Blue Force Tracking), enemy contacts, reference points and geo-fences. Chat Messaging, Email Messaging, Form Messaging and File Transfer is also provided.

**Note: Interface Pack Required**  
See Page 31

**Includes:-**

- TAC Command Software
- Key Management Software
- System Configuration Software
- Configuration Load Software

**Notes:-**

- Requires 3G HF Packet Data modem (9600bps) P/N 4090-04-04, TT4357A
- Requires 4090-01-04, TT4352A 3G ALE - Automatic Link Establishment option for Link Set up
- See also 4090-01-50/51 AES/DES Encryption options



4079 3G TAC Command Centre (Win)	4090-04-79	TT4382A	0.25 kg
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4079 3G TAC Command Centre is designed with military commanders in mind. The software is designed for touch-screens and lends itself to be used on rugged tablets. Situational Awareness using NATO standardised symbols provides the operator with a view of friendly unit positions (Blue Force Tracking), enemy contacts, reference points and geo-fences. Chat Messaging, Email Messaging, Form Messaging and File Transfer is also provided.

**Note: Interface Pack Required**  
See Page 31







**Includes:-**

- TAC Command Centre Tracking and Message Centre Gateway
- Key Management Software
- System Configuration Software
- Configuration Load Software
- Ethernet Cable 2m P/N 4090-01-49 DDN3561A

**Notes:-**

- Requires 3G HF Packet Data modem (9600bps) P/N 4090-04-04, TT4357A
- Requires 4090-01-04, TT4352A 3G ALE - Automatic Link Establishment option for Link Set up
- See also 4090-01-50/51 AES/DES Encryption options



	Barrett P/ N	MSI P/N	Net Weight
3G Packet Data Modem (9600bps)	4090-04-04	TT4357A	
<b>Includes:-</b> Internal Fit modem, 9600bps <b>Notes:-</b> Requires 3G Automatic link establishment (P/N 4090-01-04, TT4352A).		 Internal Fit	 RoHS
Internal Fit Data Modem with Mil 110A/B Waveform	4090-04-26	TT4386A	0.20 kg
<b>Includes:-</b> - HF MIL110B 9600bps Modem - Barrett DataPoint 110A/B Interface software  <b>Note:-</b> - Requires third party HF Data communications software for file/chat data transfer between HF stations		 Internal Fit	 RoHS
<b>Note: Interface Pack Required See Page 31</b>			
Internal Fit Data Modem with Mil 110A/B/F ISB Waveform	4090-04-27	TT4380A	0.20 kg
<b>Includes:-</b> - HF MIL110B/F 75-19200bps Modem - Barrett DataPoint 110A/B/F Interface software  <b>Note:-</b> - Requires third party HF Data communications software for file/chat data transfer between HF stations - Compatible with 2G ALE (P/N) and RC50-B Communications Software Suite (P/N 4090-04-66 TT4381A)		 Internal Fit	 RoHS
<b>Note: Interface Pack Required See Page 31</b>			

# Interface Packs

	Barrett P/ N	MSI P/N	Net Weight
<b>Interface Pack A</b>	4090-01-49	DDN3561A	

For IP connectivity with a RJ45 fitted 4050 transceiver, or PRC-4090 in Mobile or Base Station setup.

Includes:  
Ethernet cable 2m



<b>Interface Pack B</b>	4090-01-32	DDN3545A	0.08
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Provides serial connection to a PC from a 4090 or PRC-4090 Manpack.

Includes:  
PRC-4090 Hotshoe to USB Cable



<b>Interface Pack C</b>	4090-01-27	DDN3552A	0.02
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USB Interface Unit to suit a 4090/4050 Control Handset.

Includes:  
- Handset USB Interface (4090-01-27)



<b>Interface Pack D</b>	BCA40019	DDN3595A	
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For a serial connection between a 4050 (all types) and a PC.

Includes:  
- Serial cable for 4050 Transceiver with 9/25 pin adapters P/N BCA90023  
- USB to Serial adapter P/N BCA92318



# Hardware Accessories

	Barrett P/ N	MSI P/N	Net Weight
Mobile pack for 4050 transceiver	BCA40501	DDN4040A	1.25 kg

Has all parts required to use 4050 as a mobile transceiver in a remote control (trunk mount) configuration and to install it.

**Includes:-**

- Universal mounting plate for main unit P/N BCA40003 DDN3774A
- 6 metres control head cable P/N BCA40005 DDN3614A
- Control head mounting adaptor P/N PW-33334
- Installation kit BCA40004 DDN3602A



4050 to Ethernet Adapter with USB Ports	BCA40504	DDN3689A	0.05 kg
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DB15 to IP connection for a 4050. Connects to the rear of a 4050 transceiver.



USB to Ethernet Adapter	BCA40505	DDN4248A	0.02 kg
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USB adaptor for IP connectivity for 4050 or 4090.



PRC-4090 Handset USB Interface	4090-01-27	DDN3552A	0.01 kg
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USB interface to rear of the PRC-4090 Control Handset. Provides an access point for WiFi dongles and USB programming. Attaches via hotshoe connector.



PRC-4090 Hotshoe to GPS/CW Cable	4090-01-31	DDN3922A	0.06 kg
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Hotshoe connection between top of PRC-4090 transceiver and a GPS or CW key connection. Connects to external 7 pin GPS receiver or CW key. Length 0.3 metres



	Barrett P/ N	MSI P/N	Net Weight
<b>PRC-4090 Hotshoe to USB Cable</b> Hotshoe interface between top of PRC-4090 transceiver and USB. Length 1.5 metres	4090-01-32	DDN3545A	0.08 kg
			
<b>3 Port Accessory Hub</b> Hotshoe interface for a 4090 with GPS, CW key and USB connectors. Length 60cm	4090-01-39	DDN3735A	0.17 kg
			
<b>GPS/ESU receiver</b> Combined receiver / antenna. <b>Includes:-</b> - 4 metres cable and connector.	4090-01-24	DDN3611A	0.15 kg
For use with 4090, Hotshoe to GPS/CW cable (P/N 4090-01-31, DDN3922A) required.			
<b>GPS/ESU extender cable for 4050 - 8m</b> <b>Includes:-</b> - 8 metres GPS Extension cable with bulkhead connector for extending Barrett external GPS/ESU	BCA40523	DDN3619A	0.15 kg
			
<b>4050 Control Head</b> Secondary Control head for the 4050 HF SDR Transceiver	BCS40005	DDN3588A	0.6 kg
			

	Barrett P/ N	MSI P/N	Net Weight
Remote head interface cable for 4050 - 6m For 4050 Transceivers.	BCA40005	DDN3614A	0.55 kg
			<input checked="" type="checkbox"/> RoHS
Control Handset	See below		0.26 kg
Control Handset for 4090 HF SDR Transceiver. Full colour LED touch screen display. Full radio control.  Requires 4090 Control Handset Cable (4090-01-12, DDN3767A) or 4050 Control Handset Cable (P/N BCA40502 DDN4097A).			<input checked="" type="checkbox"/> RoHS
To suit 4050	BCA40500	DDN3789A	
To suit 4090	BCA409001	DDN3591A	
4090 Control Handset Cable	4090-01-12	DDN3767A	0.15 kg
Interface cable between the 4090 Control Handset and the transceiver. Hotshoe secured with screws. ODU connector. 1.2m			<input checked="" type="checkbox"/> RoHS
4050 Control Handset Cable	BCA40502	DDN4097A	0.25 kg
Interface cable between the 4050 Control Handset and the transceiver. Includes in-line speaker input. Hotshoe secured with screws. DB-15 connector. 6m.			<input checked="" type="checkbox"/> RoHS
4090 Control Handset Extender Cable - 6.0 metres	4090-01-13	DDN3734A	0.25 kg
Extension cable that securely fastens between the 4090 Control Handset Cable (P/N 4090-01-12, DDN3767A) and the 4090 Transceiver (P/N 4090-00-01). - 6m			

	Barrett P/ N	MSI P/N	Net Weight
Magnetic Car Mount	BCA40507	DDN4397A	0.05 kg

Control Handset magnetic mount for vehicle installations. Attaches to dashboard with choice of magnetic plate.



4090 Handset Cradle	4090-05-01	DDN4388A	0.06 kg
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Cradle to suit a 4090 Control Handset (P/N BCA409001 DDN3591A or BCA40500 DDN3789A). Black.



4090 Molle Mount	4090-05-02	DDN4170A	0.06 kg
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Molle mount attaches to the rear of the 4090 Control Handset Cradle for attachment to webbing. Designed to fit with standard webbing configurations.



4090 Handset Cradle with Molle Strap	4090-05-04	DDN3765A	0.06 kg
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Strap attaches to the rear of the 4090 Control Handset Cradle for attachment to webbing. Designed to fit with standard webbing configurations.



Loudspeaker	BCA40015	DDN3621A	0.30 kg
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Extension speaker with connector to suit 4050 Transceiver.



	Barrett P/ N	MSI P/N	Net Weight
<b>Hand microphone and clip with channel up/down buttons for 4050</b> Microphone with up/down buttons and connector to suit 4050 Transceiver.	BCA40010	DDN3620A	0.20 kg
			
<b>Desktop Console for 4050</b> The Barrett Desktop console incorporates a 4050 Control head for full transceiver functionality via IP and for direct connectivity to transceiver. Features include Boom Microphone latching/ no latching PTT, USB Interface, Ethernet connection & Inbuilt Power supply.	BCA40020	TT4305A	1.6 kg
<b>Includes:-</b> - AC/DC Power Adapter P/N BCA40021 TT4621A - Desktop Console manual P/N BCM40020 - IEC mains cord (UK, European, AUS and US style* Selected at point of order)			
<b>Note:-</b> For direct transceiver connection, Use P/N BCA40005 DDN3614A 6m control head cable available separately.			
<b>Lightweight tactical headset (under helmet)</b>	4090-01-38	DDN3549A	0.28 kg
Lightweight tactical headset, suited to under helmet mounting, with 6 pin H250 connector, speaker, microphone and clip on Press-To-Talk (PTT) button. Colour black.			
<b>DC power cable and connector for 4050</b> Power cable with DB-15 combination connector to suit 4050 Transceiver, 6m.	BCA40006	DDN3773A	1.50 kg
			
<b>Power supply stacking cradle</b> For 4050 Transceiver and 4022 power supply.	BCA40016	DDN3729A	0.30 kg
			

	Barrett P/ N	MSI P/N	Net Weight
<b>Universal mobile mounting plate for 4050</b> Universal mobile mounting plate to suit 4050 Transceiver.	BCA40003	DDN3774A	0.50 kg
		  	
<b>Fan unit to suit 4050 and 4090 Transceiver</b> Used to cool the transceiver. Automatically begins cooling the system when an internal temperature of 45 C is detected. Suggested for high duty cycle data transfer networks. - Black.	4090-01-11	DDN3546A	0.08 kg
		 	
<b>Installation kit</b> <b>Includes:-</b> <ul style="list-style-type: none"> <li>- Large selection of screws to accommodate most installations</li> <li>- Cable ties</li> <li>- Adhesive cable clips</li> <li>- Screw driver attachment to suit screws for drill</li> <li>- Rubber amalgamation tape</li> <li>- Standard insulation tape</li> <li>- Power cable lugs</li> <li>- ATC fuse holder and 25 Amp fuses</li> </ul>	BCA40004	DDN3602A	0.20 kg
		 	
<b>Interference suppression kit</b> To aid in suppressing vehicle produced interference from alternators and small motors and ignition system.	BCA40008	DDN3576A	0.45 kg
<b>Includes:-</b> <ul style="list-style-type: none"> <li>- Suppressors for alternators and motors</li> <li>- Lugs</li> <li>- Earthing cable</li> <li>- Clips</li> </ul>			
<b>CW key - lightweight</b> Brass CW key with leg strap and connector to suit Barrett transceiver.	2090-01-07	DDN3737A	0.40 kg
For use with 4090, Hotshoe to GPS/CW cable (P/N 4090-01-31, DDN3922A) required.			

	Barrett P/ N	MSI P/N	Net Weight
4090 Li-ion Battery Pack 16Ah	BCA409005	TT4368A	2.50 kg

Lightweight Li-ion 16Ah battery pack. Compatible with 4090 transceiver.



AC/DC Mains Adapter	4090-03-04	DDN3762A	0.50 kg
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For use with PRC-4090 Battery Pack (P/N 4090-03-05)

Includes:

- Adapter
- IEC mains cord (available in UK, European, AUS and US styles. Selected at point of order)



External Battery Adapter	4090-03-11	DDN4019A	0.01 kg
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Used to connect the PRC-4090 Transceiver to a BB series battery via a Battery adaptor to BB series battery cable.  
- Black.



Cable, Battery adapter to BB series battery	4090-03-08	DDN4020A	0.06 kg
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Cable specifically to connect a BB series battery to the External Battery adaptor.

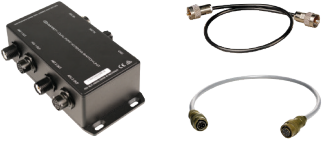







Day Pack - black	4090-01-37	DDN4325A	1.0 kg
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The Day Pack provides a compact carry bag solution for the 4090 manpack transceiver. With storage for essential items like antenna's, solar panel, GPS as well as a separate pouch for a water bladder and small rugged tablet.

There are external MOLLE fixing points if user specific pouches want to be added.



	Barrett P/ N	MSI P/N	Net Weight
<b>Dual Port Antenna Switch Unit</b> For connection of two antennas to a 4050 Transceiver. <b>Includes:-</b> - Connecting cables P/N BCA90028, 2065-00-06 - User guide P/N BCM40506	BCA40506	DDN3564A	0.65 kg
			
<b>Multi coupler</b> This 1RU, 19" rack mountable multicoupler includes one RF input and 8 terminated(selectable) outputs suitable for eight receivers sharing one antenna. Units are daisy-chainable to increase the number of outputs for larger installations. <b>Includes:-</b> - Power cable P/N SA-42021 <b>Note:-</b> Excludes RF coaxial cabling. Use BCA97503 Coaxial RF Patch Lead – 1.0m per (one cable required for each connected receiver)	BC407100	TT4539A	2 kg
			
<b>RG58 Coaxial patch cable terminated with UHF (PL259) Connectors - 1.0m</b> <b>Note:-</b> One cable required for each connected receiver.	BCA97503	DDN4402A	0.10 kg
			
<b>PTT foot switch</b> Press to Talk footswitch suitable for operator console foot activated PTT applications.	BCA207642	DDN3817A	0.25 kg
			

## **4022 Power supply and Accessories**

	Barrett P/ N	MSI P/N	Net Weight
4022 Mains power supply 24V for 4050	BC402201	DDN3726A	4.60 kg

**Features:-**

- 24 VDC output @ 15.5 Amps
- 100 to 240 V AC 50-60 Hz, 500 W input
- No-break battery backup facility
- Built in 5 Amp Charger
- Internal speaker



**Note:-** See brochure for more detailed information.



**Includes:-**



IEC mains cord (UK, European, AUS or US style* Selected at point of order)	SA-00020	DDN4409A	
Power cable - 4022 to 4050	SA-42020	DDN4337A	
Speaker cable	SA-45010	DDN4412A	

Battery backup cable 3 metres for 4022 Power supply	BCA402201	DDN3562A	1.05 kg
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To connect external battery for no-break battery backup in case of AC supply failure.

**Includes:-**

- Universal battery lugs



100 Ah 12 V sealed solar block battery - (air-freightable)	BCA92203	DDN4400A	32 kg
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For no-break battery backup in case of AC supply failure.



Cabling kit for paralleling batteries	BCA92208	DDN4401A	0.35 kg
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To parallel several batteries as above to increase the battery backup time in case of AC supply failure.

Consists of two heavy duty cables with lugs and two battery lugs.



# **Antennas, masts, whips and marine accessories**

	Barrett P/ N	MSI P/N	Net Weight
4049 Automatic tuning mobile HF antenna	BC404901	TT4331A	5.50 kg

**Features:-**

- Frequency range 1.5 to 30 MHz
- Fast tuning - typically less than 2 seconds
- Extremely robust Nylon-66 glass-filled casing
- Two piece MIL-SPEC whip and spring
- Immersible to 1 metre for 1 hour
- Meets MIL-STD 810G for shock, temperature, vibration and dust
- Built in GPS

**Note:-** See brochure for more detailed information.



**Includes:-**



Barrett 4049 Automatic tuning mobile HF antenna	BC404900	TT4979A	
Control cable 6 m - integral coaxial/control with connectors to suit 4000 series	4019-00-02	DDN3810A	
Fibreglass split whip top section and bottom section	2019-00-03	DDN4303A	
Standard spring black	2019-00-04	DDN4318A	

419 Automatic tuning mobile HF antenna	BC41901	TT4837A	5.50 kg
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**Features:-**

- Frequency range 1.5 to 30 MHz
- Fast tuning - typically < 1.5 seconds
- Memory Tune < 200ms
- Extremely robust Nylon-66 glass-filled casing
- Two piece MIL-SPEC whip and spring
- Meets MIL-STD 810G for shock, temperature, vibration and dust
- Built in GPS

**Note:-** - Coaxial/control cable not included. See brochure for available cabling.

-For use with a 2050 HF Transceiver, Control Cable to 2050 Transceiver Adaptor (P/N BCA201915) is required unless replacing a 2019, in which case, the existing 2019 cable is compatible.

**Includes:-**



Barrett 419 Automatic tuning mobile HF antenna	BC404900	TT4979A	
Mil-STD Connector	CN-50069	DDN4405A	
Fibreglass split whip top section and bottom section	2019-00-03	DDN4303A	
Standard spring black	2019-00-04	DDN4318A	

	Barrett P/ N	MSI P/N	Net Weight
<b>NVIS Whip</b>	2019-01-10	DDN3732A	1.0 kg

The Barrett Near Vertical Incidence Skywave (NVIS) antenna whip is designed to enhance the short range communications efficiency of the Barrett 4049 Automatic Tuning Mobile HF Antenna.

The usable frequencies for NVIS communications are between 2 MHz and 15 MHz.  
Length 4000 mm



**Includes:-**

- NVIS Gutter mount bracket P/N 2019-01-12
- NVIS kit installation guide P/N BCM201910



<b>NVIS Magnetic base</b>	2019-01-11	DDN3739A	0.40 kg
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The NVIS Kit Magnetic Mounting Base is designed to provide fast and convenient mounting of the end of the NVIS antenna whip (P/N 2019-01-10). The three powerful magnet feet are covered with silicone rubber to prevent damage to painted surfaces.



**Includes:-**

- NVIS kit installation guide P/N BCM201910



<b>NVIS Gutter mount bracket</b>	2019-01-12	DDN4189A	0.16 kg
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Gutter mount bracket for NVIS whip.

**Includes:-**

- NVIS kit installation guide P/N BCM201910



<b>Stainless steel whip</b>	BCA201906	DDN3615A	0.40 kg
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Single section stainless steel whip for the Barrett 2019 Automatic tuning mobile antenna for NVIS operation. Length 2080 mm.



	Barrett P/ N	MSI P/N	Net Weight
Fibreglass split whip top section and bottom section	2019-00-03	DDN4303A	0.55 kg

**Includes:-**

- one middle and one top MIL-SPEC Whip sections (colour black)
- Length 1610 mm



Standard spring black	2019-00-04	DDN4318A	0.70 kg
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Standard spring - colour black.



Universal antenna mounting bracket	BCA90033	DDN3575A	1.45 kg
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Suit 4045 Automatic tuning mobile antennas mounted on bull bars.



	Barrett P/ N	MSI P/N	Net Weight
Control cable Antenna to transceiver - 6 metres	4019-00-02	DDN3810A	0.95 kg
6 metres - composite cable combining control and coaxial cable - with connectors to suit Automatic tuning mobile antennas when used with 4000 series products.			
			
			
Control cable Antenna to transceiver - 10 metres	4019-00-05	DDN3809A	3.75 kg
10 metres - composite cable combining control and coaxial cable - with connectors to suit 4000 series antennas when used with 4000 series products.			
			
			
Control cable Antenna to transceiver - 30 metres	4019-00-07	DDN3988A	3.75 kg
30 metres - composite cable combining control and coaxial cable - with connectors to suit Automatic tuning mobile antennas when used with 4000 series products.			
			
			
Control Cable to 2050 Transceiver Adaptor	BCA201915	DDN4394A	0.2 kg
Compatible with 4019-00-02 DDN3810A, 4019-00-05 DDN3809A and 4019-00-07 DDN3988A control cable connectors. Suits 2050 transceiver.			
			
Antenna control cable extension adapter kit to suit interface cables	BCA401914	DDN3936A	0.2 kg
<b>Includes:-</b>			
- 7 Way Female/Male Mil connector adapter			
- SO239 UHF Female/Female coaxial adapter			
			

	Barrett P/ N	MSI P/N	Net Weight
4047 Automatic tuning horizontal dipole (2-30 MHz) - 150 W PEP	BC404701	DDN3731A	10 kg

The Barrett 4047 is a compact base antenna solution for installations in areas with space limitations where normal wire broadband antennas are not practical. Full Coverage from 2~30MHz. Omni directional radiation, Can be installed on wide range of masts & poles  
 Recommended height 6 ~ 10 metres  
 Max installed length 5.7 metres  
 Compact packaging for air shipment  
 ALE compatible  
 Built in GPS



**Includes:-**  
 - 30 metres of integral RF control cable and connectors  
 P/N 4017-01-01

**Note:-** See brochure for more detailed information



4045 Automatic HF antenna tuner	BC404501	TT4314A	3.20 kg
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Suits land mobile, base station and marine installations.

**Features:-**  
 Frequency Range: 1.5 - 30MHz tunable  
 Power Rating: 150 Watts PEP  
 Memory tune in <100ms,  
 Non-Memory tune in <1.5 sec  
 ALE compatible  
 Frequency-hopping compatible  
 MIL-STD-810G Waterproof ,Vibration, and Dust  
 Built in GPS



**Includes:-**  
 - 6 metre extension control cable and connectors










**Notes:-**  
 - See brochure for more detailed information



Anti-Vibration Mounting for 4045	BC404502	DDN4022A	0.40 kg
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For mounting a Barrett 4045 ATU into an armoured or other shock heavy vehicle.



	Barrett P/ N	MSI P/N	Net Weight
<b>411 Automatic HF antenna tuner</b> 1.5 to 30 MHz - Tunes whips and long wires. Aluminium base Supplied with 1x mil-connector  Note: - Cables not included. - GPS not included	BC41101	DDN3901A	2.10 kg
		 	
<b>Emergency long wire antenna</b> With adaptor to suit whip stud on 4090 manpack transceivers.	4090-02-06	DDN3618A	0.40 kg
			
<b>Counterpoise earth kit - single-wire</b> Recommended to increase the efficiency of the 4090 manpack transceiver Operating with whip antennas below 3 MHz.  <b>Includes:-</b> - Winding hub, wire earth radial and peg - Carry bag - colour black	4090-02-09	DDN3761A	0.20 kg
			
<b>Rapid deployment broadband dipole antenna - 150 W</b> Operates from 2 to 30 MHz without adjustment - 150 W PEP max. Can be deployed as full length broadband dipole or in compact form. Manufactured with Kevlar radiators and UV resistant Dacron cords. For use with 4000 series transceivers  <b>Includes:-</b> - Radiators and loads wound on reusable spools - Lanyards wound on reusable spools with throw and securing weights - 10 metres of RG-58AU coaxial cable, with waterproof BNC and UHF coaxial connectors - Carry bag - colour black	2090-02-03	DDN3551A	1.85 kg
			

	Barrett P/ N	MSI P/N	Net Weight
Portable mast	2090-02-04	DDN3671A	5.20 kg

Suitable for rapid deployment broadband dipole antenna - 150 W and rapid deployment wire dipole antenna - 150 W.

**Includes:-**

- 7 pieces mast
- Guys on winders, earth pegs, guy pegs and hammer
- Carry bag - colour black



Collapsible Whip 3m - for 4090	4090-02-10	DDN3759A	0.20 kg
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Used to connect the whip antenna to the PRC-4090 transceiver. Threaded to Bayonet fitting. Adjustable angle.



Gooseneck - for 4090	4090-02-11	DDN3760A	0.20 kg
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Used to connect the whip antenna to the 4090 transceiver. Threaded to Bayonet fitting. Adjustable angle.



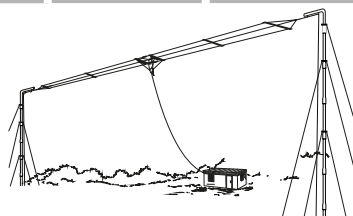
	Barrett P/ N	MSI P/N	Net Weight
912 Multi-wire broadband dipole (2 - 30 MHz) - 150 W PEP	BC91200	TT4348A	6 kg

27 metres stainless steel, fibreglass spreaders and encapsulated baluns and loads.

**Includes:-**

- 30 metres of RG-58AU coaxial cable with waterproof UHF coaxial connectors

**Note:-** Masts illustrated not included. See mast section of catalogue.



10 Metre Mast - With Stainless steel Guys for Ground Mounting	BC90206	TT4340A	32 kg
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This air transportable mast consists of 5 x 2m aluminium sections inserted on top of each other with a 1.5 m antenna support outrigger on the top section. There are 3 sets of 2 stainless steel guywires and one back-stay guywire to counter the weight of the antenna. Pegs, shackles and pins for the base plate are supplied.

**Compatible Barrett antennas**

912 HF Multi-wire broadband dipole 150W

P/N: BC91200 TT4348A

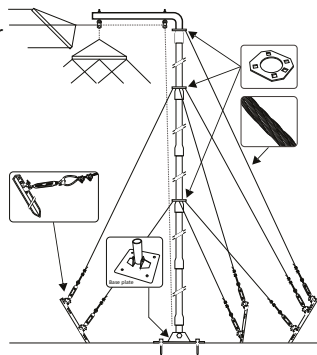
912 HF Multi-wire broadband dipole 500W

P/N: BC91202 TT4304A

**Specifications**

Packed dimensions: 2000mmx 200mmx 350mm

Wind rating: 120 kph



10 Metre Mast - With Stainless steel Guys for Flat Roof Mounting	BC90206FR	TT4339A	32 kg
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This air transportable mast consists of 5 x 2m aluminium sections inserted on top of each other with a 1.5 m antenna support outrigger on the top section. There are 3 sets of 2 stainless steel guywires and one back-stay guywire to counter the weight of the antenna. Cleats, shackles and masonry anchors are supplied.

**Compatible Barrett antennas**

912 HF Multi-wire broadband dipole 150W

P/N: BC91200 TT4348A

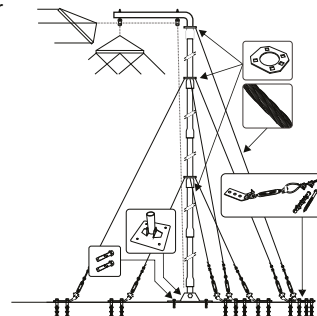
912 HF Multi-wire broadband dipole 500W

P/N: BC91202 TT4304A

**Specifications**

Packed dimensions: 2000mmx 200mmx 350mm

Wind rating: 120 kph



	Barrett P/N	MSI P/N	Net Weight
<b>6 Metre Mast - With Nylon Guys for Flat Roof Mounting</b>	BC90209FR	DDN4392A	20 kg

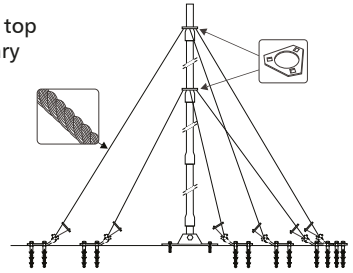
This air transportable mast consists of 3 x 2m aluminium sections inserted on top of each other with a 0.5m, 50mm diameter vertical top section. There are 2 sets of 3 rope guys. Cleats, shackles and masonry anchors are supplied.

**Compatible Barrett antenna**

4047 HF Automatic tuning horizontal dipole - 150 W P/N: BC404701 DDN3731A

**Specifications**

Packed dimensions: 2000mmx 200mmx 200mm  
 Wind rating: 120 kph



<b>6 Metre Mast - With Stainless Steel Guys for Ground Mounting</b>	BC90208	DDN4389A	24 kg
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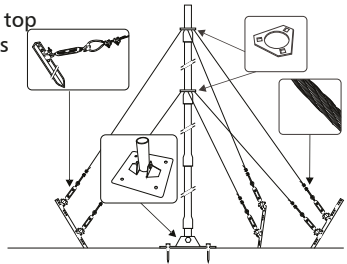
This air transportable mast consists of 3 x 2m aluminium sections inserted on top of each other with a 0.5m, 50mm diameter vertical top section. There are 2 sets of 3 stainless steel wire guys. Pegs, shackles and pins for the base plate are supplied.

**Compatible Barrett antenna**

4047 HF Automatic tuning horizontal dipole - 150 W P/N: BC404701 DDN3731A

**Specifications**

Packed dimensions: 2000mmx 200mmx 200mm  
 Wind rating: 120 kph



<b>6 Metre Mast - With Stainless Steel Guys for Flat Roof Mounting</b>	BC90208FR	DDN4390A	24 kg
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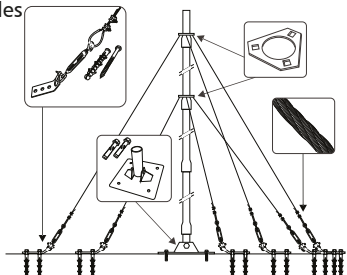
This air transportable mast consists of 3 x 2m aluminium sections inserted on top of each other with a 0.5m, 50mm diameter vertical top section. There are 2 sets of 3 stainless steel wire guys. Cleats, shackles and masonry anchors are supplied.

**Compatible Barrett antenna**

4047 HF Automatic tuning horizontal dipole - 150 W P/N: BC404701 DDN3731A

**Specifications**

Packed dimensions: 2000mmx 200mmx 200mm  
 Wind rating: 120 kph

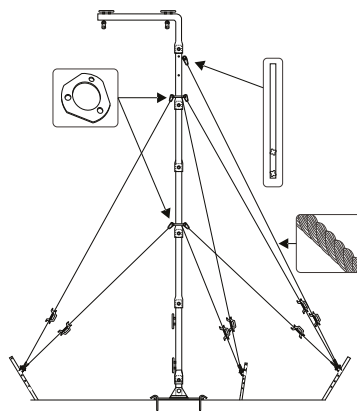


	Barrett P/ N	MSI P/N	Net Weight
<b>10 Metre Rapid Deployment Mast</b>	<b>2090-02-21</b>	<b>TT4976A</b>	<b>24 kg</b>

This rapid deployment air transportable 10m mast consists of 2.1 metre aluminium sections with collared end joints, inserted on top of each other. Lower heights are achievable by using fewer sections. A tubular horizontal mounting arm, with pulleys, attaches to the top of the mast to enable large wire antennas to be raised in place once the mast is erected. The supplied 1 metre vertical extension can be added at the top of the mast to increase the maximum height to 11 metres. This extension enables more than one antenna to be easily mounted.

#### Compatible Barrett antennas

- HF 912 Multi-wire broadband dipole 150 W  
P/N: BC91200 TT4348A
- HF 912 Multi-wire broadband dipole 500 W  
P/N: BC91201 TT4373A
- HF Rapid deployment broadband dipole 150 W  
P/N: 2090-02-03, DDN3551A
- HF Rapid deployment two wire broadband dipole 150 W P/N: 2090-02-20, TT4353A
- VHF 30 to 108 MHz elevated wideband antenna  
P/N: 2083-02-03, DDN3714A
- VHF 30 to 108 MHz centre-fed whip antenna  
P/N: 2083-02-01, DDN3719A



<b>5 Metre Rapid Deployment Mast</b>	<b>2090-02-04</b>	<b>DDN3671A</b>	<b>5.8 kg</b>
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The Barrett Rapid deployment mast is a lightweight, transportable pole construction kit for use as a temporary 5m tower solution in the field.

#### Compatible Barrett antennas

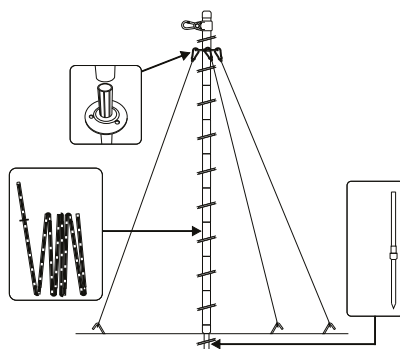
- HF-Rapid deployment broadband dipole antenna 150 W P/N: 2090-02-03, DDN3551A

#### Specifications

Mast material: 25mm round aluminium tube, NATO Green.

Packed dimensions: L-720mm x W-220mm x H-130mm

Packed Weight: 5.8kg



## 10 Metre Rapid Deployment Composite Mast

This rapid deployment mast consists of 7 sections (including the offset bracket) of composite tube which extend telescopically with locking levers. The mast can be erected to any desired height. The last extension at the top of the mast (thinnest section) is only suitable for very light head loads.

Guy ropes are supplied on winding spools to facilitate rapid deployment of the mast. The mast is supplied with all components required for deployment. The complete mast kit is contained in a rugged canvas carry-bag. Please note a halyard for raising an antenna is not included.

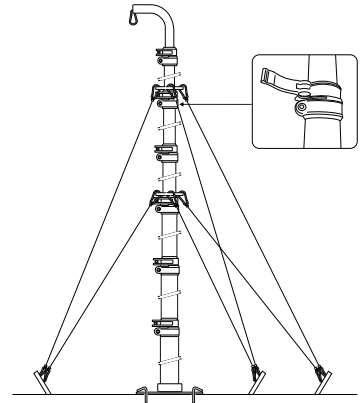
### Compatible Barrett antennas

- VHF 30 to 108 MHz elevated wideband VHF antenna  
P/N: 2083-02-03, DDN3714A
- HF-Rapid deployment broadband dipole antenna  
150W P/N: 2090-02-03, DDN3551A
- HF Rapid deployment two wire broadband dipole  
150W P/N: 2090-02-20, TT4353A

### Specifications

Retracted eight: 1960mm,  
Mast material: Composite telescopic tube, Black.

Barrett P/ N	MSI P/N	Net Weight
2090-02-24	DDN3672A	8.6 kg



Barrett P/ N

MSI P/N

Net Weight

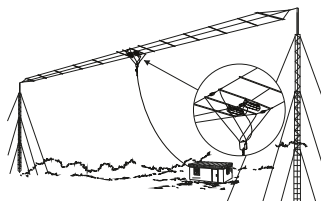
912 Multi-wire broadband dipole (2 - 30 MHz)  
- 500 W PEP

27 metres stainless steel, fibreglass spreaders and encapsulated baluns and loads.

**Includes:-**

- 30 metres of RG-213 coaxial cable with waterproof UHF coaxial connectors

**Note:-** Masts illustrated not included. See mast section of catalogue.



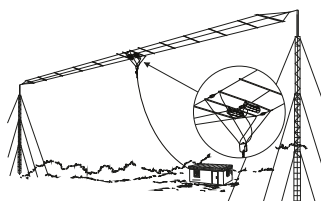
912 Multi-wire broadband dipole (3.6 - 30 MHz)  
- 1 kW continuous

27 metres stainless steel, fibreglass spreaders and encapsulated baluns and loads.

**Includes:-**

- 30 metres of RG-213 coaxial cable with waterproof UHF coaxial connectors and UHF to N-type adaptor

**Note:-** Masts illustrated not included. See mast section of catalogue.



912 Multi-wire broadband dipole (2 - 30 MHz)  
- 1 kW continuous

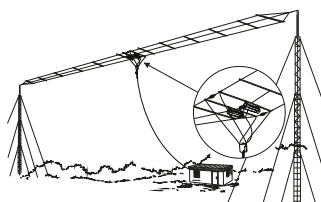
54 metres stainless steel, fibreglass spreaders and encapsulated baluns and loads.

**Includes:-**

- 30 metres of RG-213 coaxial cable with waterproof UHF coaxial connectors and UHF to N-type adaptor

**Notes:-**

- Ground catenary and Masts illustrated not included. See mast section of catalogue.
  - This antenna requires minimum 15M Lattice masts to handle the forces to lift into horizontal configuration.
- We do not recommend inverted "V" configuration for this antenna.



	Barrett P/ N	MSI P/N	Net Weight
Halyard and pulley kit - to suit 912 Broadband antennas	BCA91201	DDN3600A	1.20 kg

**Includes:-**

- 2 off stainless steel pulleys
- 100 metres of braided nylon halyard



Offset bracket and pulley	2090-02-17	DDN3924A	2.20 kg
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To facilitate mounting of 912 Broadband and single wire dipoles in an inverted "V" configuration on either 902 Winch-up towers or 902 Telescopic masts.  
Pulley to suit 4 mm halyard.



30 metres Coaxial cable RG-58	BCA90047	DDN4398A	1.20 kg
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30 metres of RG-58 coaxial cable with high quality "UHF" type connectors.



Coaxial cable RG-213 (per metre)	BCA90045	DDN3540A	0.15 kg
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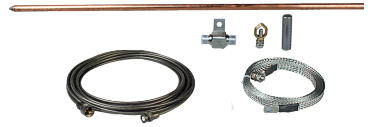
High quality RG-213 coaxial cable.



	Barrett P/ N	MSI P/N	Net Weight
Lightning arrester kit - up to 400 W	BCA90034	DDN3559A	2.05 kg

**Includes:-**

- 1 x Lightning arrester module PO-00020
- 1 x 5 metres length of RG58 Coaxial cable with PL259/UHF (male)
- 1 x Steel dolly
- 1 x 3 metres earth braid
- 1 x Brass cable clamp assembly
- 1 x Copper plated steel earth rod



Lightning arrester kit - up to 1 kW	BCA207503	DDN3566A	2.45 kg
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**Includes:-**

- 1 x Lightning arrester module PO-00024
- 1 x 5 metres length of RG213 Coaxial cable with PL259/UHF (male)
- 1 x Steel dolly
- 1 x 3 metres earth braid
- 1 x Brass cable clamp assembly
- 1 x Copper plated steel earth rod



Barrett P/ N

MSI P/N

Net Weight

**3.6 metres Marine swingdown whip**

BC91710

DDN3900A

2.0 kg

**Includes:-**

- Max Power 250W
- Adjustable stainless steel swingdown base

**Frequency Range:-**

- Marine HF 2-30 MHz using suitable ATU


**6 metres Two piece marine sidemounted whip antenna**

BC91711

TT4614A

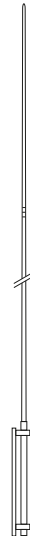
3.0 kg

**Includes:-**

- Max Power 250W
- Two side mounting insulators

**Frequency Range:-**

- Marine HF 2-30 MHz using suitable ATU and Ground Plane



	Barrett P/ N	MSI P/N	Net Weight
8.1 metres High efficiency marine sidemounted whip antenna	BC91712	DDN3987A	8 kg

**Includes:-**

- Max Power 250W
- Two side mounting insulators

**Frequency Range:-**

- Marine HF 2-30 MHz using suitable ATU



10 metres GMDSS Marine high power whip antenna 3-30 MHz (500W/1kW)	BC91713	TT4303A	24 kg
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**Includes:-**

- Base mount with side feed

**Frequency Range:-**

- 500W Marine HF 2-30 MHz using suitable ATU and Ground Plane
- 1kW Marine HF 3-30 MHz using suitable ATU and Ground Plane

**Notes:-**

- For use with BC407508 TT4302A 1kW Automatic antenna tuner (Lencom ATU).
- Not suitable for 500W/1kW operation below 3MHz
- For High Power 2-30MHz operation use BC91704 35ft Aluminium high power whip.
- Suitable counterpoise/ground plane required for ground installation, see BCA407550 DDN3730A Multi Radial Earth Mat/Ground plane counterpoise kit.



# Interoperability

	Barrett P/ N	MSI P/N	Net Weight
2064 Radio Voice Bridge	2064-10-10	TT4306A	1.8 kg

Voice bridge between Barrett and third-party radios.

**Includes:-**

- Tactical Voice Bridge
- H-250 type handset
- Radio Cables (see below)
- User Manual



**Cables to be selected at point of order:**



2064 to 25 way serial connector 4050 HF SDR Transceiver cable, 1m	2064-10-11	DDN3584A	
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2064 to H250 connector for PRC-2080+ VHF Handheld Transceiver and PRC-4090 HF SDR Transceiver, 1m	2064-10-12	DDN3742A	
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2064 to unterminated cable for OEM radio, 1m	2064-10-13	DDN3585A	
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2064 to 25 way serial connector 4050 HF SDR Transceiver cable, 5m	2064-10-14	DDN3743A	
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2064 to H250 connector for PRC-2080+ VHF Handheld Transceiver and PRC-4090 HF SDR Transceiver, 5m	2064-10-15	DDN3744A	
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2064 to unterminated cable for OEM radio, 5m	2064-10-16	DDN3745A	
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**4075 High power HF transmitter**

	Barrett P/N	MSI P/N	Net Weight
4075 HF High Power Transmitter Package 20 RU - 1kW	BC407510	TT4377A	172 kg

The Barrett 4075 high power HF Transmitter is a compact rack mounted communications solution developed for base station applications.

See brochure for more detailed information.

**Note:-**

High power transmitters require high quality earthing systems and it is recommended that lightning arrestor kits are used on RF coaxial feeders. Details of required earthing systems are available from our technical service department and are supplied in the operation and installation manual.



For additional options and accessories, please see relevant section detail.

**Includes:-**



20U desk mount rack	BCA407522	TT4317A	
4050ip HF SDR Transceiver	BC405000ip	TT4449A	
4022 Power Supply Unit 24 V	BC402201	DDN3726A	
4075 Linear amplifier 1kW	BC407501	TT4315A	
Fan unit to suit 4050	BCA40002	DDN3613A	
4000 series Rack mount kit	BCA40007	DDN3563A	
4075 Power Supply Unit 1kW	BC407503	TT4316A	
AC Power distribution unit (power cable unterminated)	BCA407519	DDN4260A	

	Barrett P/N	MSI P/N	Net Weight
4075 HF High Power Transmitter Package 20 RU - 500 W	BC407512	TT4597A	172 kg

The Barrett 4075 high power HF Transmitter is a compact rack mounted communications solution developed for base station applications.

See brochure for more detailed information.

**Note:-**

High power transmitters require high quality earthing systems and it is recommended that lightning arrestor kits are used on RF coaxial feeders. Details of required earthing systems are available from our technical service department and are supplied in the operation and installation manual.



For additional options and accessories, please see relevant section detail.

**Includes:-**



20U desk mount rack	BCA407522	TT4317A	
4050ip HF SDR Transceiver	BC405000ip	TT4449A	
4022 Power Supply Unit 24 V	BC402201	DDN3726A	
4075 Linear amplifier 500 W	BC407500	TT4327A	
Fan unit to suit 4050	BCA40002	DDN3613A	
4000 series Rack mount kit	BCA40007	DDN3563A	
4075 Power Supply Unit	BC407502	TT4328A	
AC Power distribution unit (power cable unterminated)	BCA407519	DDN4260A	

	Barrett P/N	MSI P/N	Net Weight
4075 HF High Power Transmitter Package 39 RU - 1kW	BC407511	TT4645A	258 kg

The Barrett 4075 high power HF Transmitter is a compact rack mounted communications solution developed for base station applications.

See brochure for more detailed information.

**Note:-**

High power transmitters require high quality earthing systems and it is recommended that lightning arrestor kits are used on RF coaxial feeders. Details of required earthing systems are available from our technical service department and are supplied in the operation and installation manual.

For additional options and accessories, please see relevant section detail.



**Includes:-**



39U rack	BCA407523	DDN4350A	
4050ip HF SDR Transceiver	BC405000ip	TT4449A	
4022 Power Supply Unit 24V	BC402201	DDN3726A	
4075 Linear amplifier 1kW	BC407501	TT4315A	
Fan unit to suit 4050	BCA40002	DDN3613A	
4000 series Rack mount kit	BCA40007	DDN3563A	
4075 Power Supply Unit 1kW	BC407503	TT4316A	
AC Power distribution unit (power cable unterminated)	BCA407519	DDN4260A	

	Barrett P/N	MSI P/N	Net Weight
4075 HF High Power Transmitter Package 39 RU - 500 W	BC407514	TT4960A	258 kg

The Barrett 4075 high power HF Transmitter is a compact rack mounted communications solution developed for base station applications.

See brochure for more detailed information.

**Note:-**

High power transmitters require high quality earthing systems and it is recommended that lightning arrestor kits are used on RF coaxial feeders. Details of required earthing systems are available from our technical service department and are supplied in the operation and installation manual.

For additional options and accessories, please see relevant section detail.



**Includes:-**



39U rack	BCA407523	DDN4350A	
4050ip HF SDR Transceiver	BC405000ip	TT4449A	
4022 Power Supply Unit 24 V	BC402201	DDN3726A	
4075 Linear amplifier 500 W	BC407500	TT4327A	
Fan unit to suit 4050	BCA40002	DDN3613A	
4000 series Rack mount kit	BCA40007	DDN3563A	
4075 Power Supply Unit	BC407502	TT4328A	
AC Power distribution unit (power cable unterminated)	BCA407519	DDN4260A	

Barrett P/N

MSI P/N

Net Weight

**4075 HF High Power Transmitter Package  
No Rack - 1kW**
**BC407520**
**TT4439A**

The Barrett 4075 high power HF Transmitter is a compact rack mounted communications solution developed for base station applications.



See brochure for more detailed information.

**Note:-**

High power transmitters require high quality earthing systems and it is recommended that lightning arrestor kits are used on RF coaxial feeders. Details of required earthing systems are available from our technical service department and are supplied in the operation and installation manual.

For additional options and accessories, please see relevant section detail.

**Includes:-**


4050ip HF SDR Transceiver

BC405000ip

TT4449A

4022 Power Supply Unit 24 V

BC402201

DDN3726A

4075 Linear amplifier 1kW

BC407501

TT4315A

Fan unit to suit 4050

BCA40002

DDN3613A

4000 series Rack mount kit

BCA40007

DDN3563A

4075 Power Supply Unit 1kW

BC407503

TT4316A

AC Power distribution unit (power cable unterminated)

BCA407519

DDN4260A

Barrett P/N

MSI P/N

Net Weight

**4075 HF High Power Transmitter Package  
No Rack - 500 W**
**BC407521**
**TT4438A**

The Barrett 4075 high power HF Transmitter is a compact rack mounted communications solution developed for base station applications.



See brochure for more detailed information.

**Note:-**

High power transmitters require high quality earthing systems and it is recommended that lightning arrestor kits are used on RF coaxial feeders. Details of required earthing systems are available from our technical service department and are supplied in the operation and installation manual.

For additional options and accessories, please see relevant section detail.

**Includes:-**


4050ip HF SDR Transceiver

BC405000ip

TT4449A

4022 Power Supply Unit 24 V

BC402201

DDN3726A

4075 Linear amplifier 500 W

BC407500

TT4327A

Fan unit to suit 4050

BCA40002

DDN3613A

4000 series Rack mount kit

BCA40007

DDN3563A

4075 Power Supply Unit

BC407502

TT4328A

AC Power distribution unit (power cable unterminated)

BCA407519

DDN4260A

Barrett P/N	MSI P/N	Net Weight
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4075 HF High Power Transmitter Package (transportable) 9RU Suprobox rack - 500 W	BC407515	TT4301A	
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The Barrett 4075 high power HF Transmitter is a compact rack mounted communications solution developed for base station applications.

See brochure for more detailed information.

**Note:-**

High power transmitters require high quality earthing systems and it is recommended that lightning arrestor kits are used on RF coaxial feeders. Details of required earthing systems are available from our technical service department and are supplied in the operation and installation manual.

For additional options and accessories, please see relevant section detail.



**Includes:-**



9RU Suprobox rack 9U48 Black	BCA407503	TT4831A	
4050ip HF SDR Transceiver	BC405000ip	TT4449A	
4022 Power Supply Unit 24 V	BC402201	DDN3726A	
4075 Linear amplifier 500 W	BC407500	TT4327A	
Fan unit to suit 4050	BCA40002	DDN3613A	
4000 series Rack mount kit	BCA40007	DDN3563A	
4075 Power Supply Unit 500 W	BC407502	TT4328A	
AC Power distribution unit (power cable unterminated)	BCA407519	DDN4260A	

Barrett P/N	MSI P/N	Net Weight
BC407515wb	TT4383A	

4075 Wideband HF High Power Transmitter Package (transportable) 9RU Suprobox rack - 500 W

The Barrett 4075 Wideband high power HF Transmitter is a compact rack mounted communications solution developed for base station applications.

See brochure for more detailed information.

**Note:-**

High power transmitters require high quality earthing systems and it is recommended that lightning arrestor kits are used on RF coaxial feeders. Details of required earthing systems are available from our technical service department and are supplied in the operation and installation manual.

For additional options and accessories, please see relevant section detail.



**Includes:-**



9RU Suprobox rack 9U48 Black	BCA407503	TT4831A
4050wb HF SDR Transceiver	BC405024wb	TT4494A
4022 Power Supply Unit 24 V	BC402201	DDN3726A
4075 Linear amplifier 500 W	BC407500	TT4327A
Fan unit to suit 4050	BCA40002	DDN3613A
4000 series Rack mount kit	BCA40007	DDN3563A
4075 Power Supply Unit 500 W	BC407502	TT4328A
AC Power distribution unit (power cable unterminated)	BCA407519	DDN4260A
4050 to Ethernet Adapter with USB Ports	BCA40504	DDN3689A

**High power ATU (Automatic tuning unit)**

Barrett P/ N

MSI P/N

Net Weight

**1kW ATU (Automatic tuning unit)**
**BC407508**
**TT4302A**

Housed in a fully weatherproof enclosure, the Barrett 1kW Automatic Tuning Unit (ATU) (BC407508 TT4302A) will tune long wire antennas effectively up to a length of 10 metres and wire loop antennas or whip antennas over a frequency range of 2 to 30 MHz and is suitable for both marine and land applications.

Tuning is rapid, typically 10 seconds the first time RF is applied, either whilst the operator is talking or when the "Tune" control is activated on the transceiver.


**Notes:-**

- **Requires Control Cable (see below)**

- Suitable whip antennas include BC91713 TT4303A 10m High power whip for 3-30 MHz operation.

- For 2-30MHz operation using a long antenna minimum tunable length is 44m

- Requires Anti-Vibration Tray for Marine Installation

**Anti-Vibration Tray**
**BCA407535**
**TT4436A**

When attached to the optional shock-mount, BC407508 is a rugged solution that is rated to MIL-STD-810G for shock and MIL-STD-167-1A for vibration.


**4075 1kW ATU Control Cable 30 metres**
**BCA407540**
**DDN4306A**

Antenna Tuner Unit control cable


**4075 1kW ATU Control Cable 50 metres**
**BCA407541**
**DDN4413A**

Antenna Tuner Unit control cable


**4075 1kW ATU Control Cable 100 metres**
**BCA407542**
**DDN4088A**

Antenna Tuner Unit control cable



Barrett P/ N

MSI P/N

Net Weight

**4075 1kW ATU Coaxial Cable RG213 30 metres**
**BCA407543**
**DDN4216A**
**5.9 kg**

Assembly RG 213, N Male to N Male. Total Cable Loss 0.612dB. Power out @ 500 watts = 434 watts.  
Power out @ 1000 watts = 868 watts


**4075 1kW ATU Coaxial Cable RG213 - 50 metres**
**BCA407544**
**DDN4217A**
**9.75 kg**

Assembly RG 213, N Male to N Male. Total Cable Loss 1.260dB. Power out @ 500 watts = 374 watts.  
Power out @ 1000 watts = 748 watts



**Note:-** Not recommended that RG213 is used for this cable length

**4075 1kW ATU Coaxial Cable RG213 - 100 metres**
**BCA407545**
**TT4379A**
**19.5 kg**

Assembly RG 213, N Male to N Male. Total Cable Loss 2.520dB. Power out @ 500 watts = 280 watts.  
Power out @ 1000 watts = 560 watts



**Note:-** Not recommended that RG213 is used for this cable length

**Coaxial cable from transmitter to ATU (LMR 400) pre-terminated cable - 50 metres**
**BCA407552**
**DDN3539A**
**5.2 kg**

Assembly LMR-400, N Male to N Male. Total Cable Loss 0.771dB. Power out @ 500 watts = 419 watts.  
Power out @ 1000 watts = 837 watts


**Coaxial cable from transmitter to ATU (LMR 400) pre-terminated cable - 100 metres**
**BCA407553**
**DDN3921A**
**10.4 kg**

Assembly LMR-400, N Male to N Male. Total Cable Loss 1.542dB. Power out @ 500 watts = 351 watts.  
Power out @ 1000 watts = 701 watts



Barrett P/ N

MSI P/N

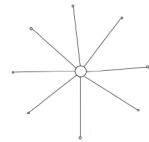
Net Weight

**4050 to 4075 Linear Amplifier Control Interface Cable**
**BCA407501**
**DDN4090A**
**0.15 kg**

For direct connection between 4050 HF SDR Transceiver and 4075 Linear Amplifier.

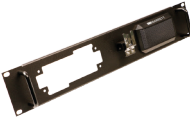







**Ground Counterpoise Kit**
**BCA407550**
**DDN3730A**
**5 kg**

Portable 5 metres mast kit for tactical broadbands and dipoles - rapid deployment.









# **Racking options and accessories**

	Barrett P/ N	MSI P/N	Net Weight
39U floor mount 19" rack - colour black	BCA407523	DDN4350A	58 kg
39U floor standing 19" rack, with back door and removable side panels.			
20U desk mount 19" rack - colour black	BCA407522	TT4317A	36.8 kg
20U floor and desk mounted 19" rack, with back door and removable side panels.			
19" Standard rack mount kit for 4050/4022	BCA40007	DDN3563A	2 kg
Standard rack mount tray for 4050/4022.			
<b>Includes:-</b> - Screw kit for mounting Transceiver/ Power supply unit.			
19" Rack mount kit for 4050/4050	BCA40031	DDN4229A	2 kg
Standard rack mount tray for 4050/4050.			
<b>Includes:-</b> - Screw kit for mounting Transceiver/ Power supply unit.			

	Barrett P/ N	MSI P/N	Net Weight
<b>19" Rack front panel with mic and speaker for 4050</b> Useful for extended control options from Transceiver and/or Transmitter in control centres where the operator sits away from the equipment rack.  Extended control options in communications vehicle racks.  Remote Site control options over LAN (separate power supply and special cabling require for this option).	BCA407528	DDN4339A	0.75 kg
	 		
<b>1U 19" rack blanking panel - colour black</b> Powder coated 1U blank 19" rack panel.	BCA207626	DDN4395A	0.15 kg
<b>Includes:- fasteners</b>			
<b>2U 19" rack blanking panel - colour black</b> Powder coated 2U blank 19" rack panel.	BCA207627	DDN4396A	0.25 kg
<b>Includes:- fasteners</b>			









# Accessories

	Barrett P/ N	MSI P/N	Net Weight
<b>Lightning arrester module</b>	See below		0.1 kg
Inline Lightning protection module			
400W	PO-00020	DDN4406A	
1kW	PO-00024	DDN4408A	
<b>Lightning arrester insert - 400 W</b>	See below		0.01 kg
Insert pellets suitable for up to 400W RF Power			
400W	PO-00021	DDN4407A	
1kW	PO-00022	DDN4219A	
<b>N-type Male connector (Crimp type for RG213)</b>	BCA90048	DDN4399A	0.1 kg
RF / Coaxial Connector, N Coaxial, Straight Plug, Crimp, 50 ohm, RG8, RG213			
<b>UHF (PL259) Male connector (Crimp type for RG213)</b>	BCA407556	DDN3994A	0.1 kg
RF / Coaxial, UHF Plug, Straight, Crimp			

# Training packages

Please contact your local Sales Representative to enquire about training packages.

**Spare kits**

	Barrett P/ N	MSI P/N	Net Weight
SDR Micro complete	BCS40001	DDN3586A	0.6 kg
SDR Micro board complete. Suits both 4050 and 4090 transceivers.			
			
4050 SDR PA complete on chassis	BCS40003	TT4336A	1.50 kg
The PA is supplied mounted on the top cover heat sink.			
			
4050 Transceiver component spares kit	BCS40004	DDN3587A	0.6 kg
Discrete component spares based on one transceiver for 5 years operation.			
			
4050 Control Head complete	BCS40005	DDN3588A	0.6 kg
Complete 4050 Control Head setup.			
			
4090 Interface Board PCB	4090-60-03	TT4812A	
4090 Interface board complete.			
			
4090 ATU Board PCB	4090-60-04	DDN3855A	
4090 ATU board complete.			
			
4090 Transceiver component spares kit	4090-60-00	DDN3856A	
Discrete component spares based on one transceiver for 5 years operation.			
			
4022 Interface boards	BCS40008	DDN3589A	0.6 kg
4022 Power supply LED PCB and main control complete.			
			
4022 Power supply main module - 24 V	BCS40009	DDN3590A	0.6 kg
4022 Main switch mode power supply module.			
