			405	50 HF SDR	
O BARRETT	4000 Series Catalogue	Part Number	Packaging Type	Net Weight	
4050 HF SDR		BC405000	C2	4.90 kg	
Standard features:- - 1000 channels with frequency range 1.6 to 30 MHz - 1000 contact entries - Power output 125 W PEP, power input 12 VDC nominal - Power output 150 W PEP, power input 24 VDC nominal - Software defined core & DSP - Modes USB/LSB/CW/AM/CF (Custom Filter) - Digital Selective Calling & Telcall - 4 & 6 digit - GPS enabled (Hardware required)	BC40	05000	BCA40010	100	CA40015
Optional features include*:- - 2G ALE - 3G ALE - Secure call - Frequency hopping - Digital voice - ARINC - GPS			BCA40006		M40500
* For additional options and accessories, please see releva	nt section detail.				
Note :- See brochure for more detailed information.					
Includes:-					
Hand microphone with channel up/down buttons		BCA40010			
Loudspeaker		BCA40015			
DC power cable and connector - 6 metres		BCA40006			

BCM40500

Barrett 4050 Operation and installation manual

4050 HF SDR

O BARRETT	4000 Series Catalogue	Part Number	Packaging Type	Net Weight	
4050R HF SDR (Receiver only)		BC405001	C2	4.90 kg	

Standard features:-

- 1000 channels with frequency range 1.6 to 30 MHz
- 1000 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 ± 10 Hz -30°C to +60°C

Note :- See brochure for more detailed information.





4050 HF SDR

BC405000

BCA40006





BCA40015

BCM40500

Includes:-

Loudspeaker	BCA40015		
DC power cable and connector - 6 metres	BCA40006		
Barrett 4050 Operation and installation manual	BCM40500		

Link Establishment Options

O BARRETT	4000 Series Catalogue	Part Number	Packaging Type	Net Weight	options
2G Automatic link establishment (ALE)		BCO40501	N/A	N/A	

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

Internal Fit

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 BCA40001

3G Automatic link establishment (ALE)	BCO40502	N/A	N/A	
3rd generation to STANAG 4538. One transceiver must be fitted with GPS (Master transceiver). 3G uses GPS for time reference and distribution.		Internal Fit		



Ontions

					Options
OBARRETT	4000 Series Catalogue	Part Number	Packaging Type	Net Weight	
Digital voice module: DV		BCO40505	N/A	N/A	
Digital Voice Vocoder Module 700/1200/2400 bps Includes:- - "TWELP" Vocoder - Clear Digital Voice - HF Internal digital voice operation manual P/N B Note:- - Factory internal fit only - Does not include encryption - Can be implemented with Mil Data standards - Can be implemented alongside Clover Data (International Standards)	3CM40504	Inter C		And Arithmetical Arithmetica Arithmetical Arithmetical Ar	Options
ARINC Selcall encoder		BCO40509	N/A	N/A	C
Enables transmission of aviation ARINC standard	i selcall.		Internal Fit		

Wifi Adaptor	BCO40508	N/A	0.01 kg
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 on USB P/N BCUSB40507 - Wifi Adaptor product information document P/N BCM40520	0		<image/> <image/> <section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>

O BARRETT	4000 Series Catalogue	Option				
		Part Number	Packaging Type	Net Weight		
Desktop app (Windows)		BCO40516	N/A	N/A		

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

Includes:-

- Desktop microphone P/N BCA40017
- Desktop headphone P/N BCA40018

Note:- WiFi option must be enabled.





PC Programming kit - for 4050	BCA40001	C4	0.10 kg	
Includes:- - Software (Operating manual included on the USB) P/N USB-40001				



Ontions

Voice Security Options

O BARRETT	4000 Series Catalogue	Part Number	Packaging Type	Net Weight	options
Secure call		BCO40503	N/A	N/A	

A point to point or point to multipoint Secure call system initiated by the entry of a scramble key and secure call selcall.



Frequency hopping	BCO40504	N/A	N/A	
5 or 25 hops per second - no central synchronisation station, no net entry delay or late entry delay. ESU/				
GPS to be purchased separately.		Internal Fit		
Note:- This option requires an Australian Government Export Licence.				

Secure digital voice module with DES 56 encryption - SDV-56	BCO40506	N/A	N/A	
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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

Note:-

- Factory internal fit only
- This option requires key management and keyfill software P/N BCA40521
- Can be implemented with Mil Data standards
- Can be implemented alongside Clover Data (Internal fit)
- This option does not require an Australian Government Export Licence



Ontions

					Options	
O BARRETT	4000 Series Catalogue	Part Number	Packaging Type	Net Weight		
Secure digital voice module with AES 256	Secure digital voice module with AES 256 encryption - SDV-256			N/A		
Secure digital voice module auto vocoder 600/12	200/2400 with AES 256 encryption					
 Includes:- "TWELP" Vocoder Clear Digital Voice HF Internal digital voice operation manual P/N Note:- Factory internal fit only This option requires key management and keyf Can be implemented with Mil Data standards Can be implemented alongside Clover Data (In This option requires an Australian Government 	ïll software P/N BCA40520 ternal fit)	Inter				Options
Key management and keyfill software DE	S 56	BCA40521	N/A	N/A		
For use with SDV-56 - P/N BCO40506 Includes:- - Scrambler key injection software P/N BCUSB40 - Programming cable P/N BCA90023 - USB to serial adaptor P/N BCA92318	0521			Internal Fit		

						Options
	O BARRETT	4000 Series Catalogue	Part Number	Packaging Type	Net Weight	
	Key management and keyfill software AES 256		BCA40520	N/A	N/A	
Options	For use SDV-256 - P/N BCO40507 Includes:- - Scrambler key injection software P/N BCUSB40520 - Programming cable P/N BCA90023 - USB to serial adaptor P/N BCA92318		()		Internal Fit	
	Voice scrambler FFT OEM Secure		BCO40510	N/A	N/A	
	Enables the 4050 to operate in FFT based voice scramble	e mode.		Internal Fit		

Note:- This option requires key management and keyfill software Please see key injection kit P/N BCA20255

					Options
OBARRETT 400	Series Catalogue	Part Number	Packaging Type	Net Weight	
Voice encryption DES 56 OEM Secure		BCO40511	N/A	N/A	
Enables the 4050 to operate DES 56 Digital voice encryption (2400 k analogue FFT scrambler for use on extremely bad HF channels. Note:- This option requires key management and keyfill software Please see key injection kit P/N BCA20255	ops MELPe Vocoder) mode with fall back		Internal Fit		
Voice encryption AES 256 OEM Secure		BCO40512	N/A	N/A	
Enables the 4050 to operate in AES 256 (2400 bps MELPe Vocoder) for use on extremely bad HF channels. Note:- This option requires key management and keyfill software Please see key injection kit P/N BCA20255			Internal Fit		
Note:- This option requires an Australian Government Export Licence	e.				
Key injection kit for voice encryption AES 256/DES 56/ FF	Г OEM Secure	BCA20255	C4	0.20 kg	
Includes:- - Scrambler key injection software P/N BCUSB20255 - Programming cable P/N BCA90023 - USB to serial adaptor P/N BCA92318					

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Data Transmission Options

					Options
O BARRETT	4000 Series Catalog ue	Part Number	Packaging Type	Net Weight	
4026 MIL 110B Strategic email system (Stanag S	5066)	BC402601	N/A	N/A	
 Barrett MIL 110B Strategic email system (Stanag 5066) - (4050 series internal fit option). Includes:- HF MIL 110B Stanag 4539 9600bps Modem with MDL-I RC50-B 5066 email suite (Window) Serial cable for 4050 Transceiver with 9/25 pin adaptors USB to Serial adaptor P/N BCA92318 Note:- Requires 2G ALE - Automatic Link Establishment Requires 3.0 kHz bandwidth selection for 9600bps opera Does NOT include encyption as standard - See option P/N 	M4 SW s P/N BCA90023 option for Link set up P/N BCO40501		Internal Fit)	
Options:-					
COMSEC 56 bit DES Data encryption for use with MI	_ 110B modems	BCO40526			
Note:- Not required if data option ordered with P/N BCO	40506				
COMSEC 256 bit AES Data encryption for use with M	IL 110B modems	BCO40527			
Note:- Not required if data option ordered with P/N BCO4	40507				
Note:- This option requires an Australian Government	kport Licence.				

					Options	
O BARRETT	4000 Series Catalogue	Part Number	Packaging Type	Net Weight		
4026 3G Data, Email & Internet Gateway	system	BC402602	N/A	N/A		
Barrett 3G Data, Email & Internet Gateway softw	are to suit 3G Email System		Internal Fit	t		
 HF Packet Data modem (STANAG 4538) Barrett 3G Data & Email system configuration s Serial cable for 4050 Transceiver with 9 / 25 pir USB to Serial adaptor P/N BCA92318 						
Note:- Requires 3.0 KHz bandwidth selection for Does NOT include encryption as standard - See At least one server require per network for intern	options P/N BCO40506/7 or Vocoder option P/N BCO40501			}		Options
Options:- COMSEC 56 bit DES Data encryption for use	with MIL 110B modems	BCO40526	_	_	_	
Note:- Not required if data option ordered with P		60040320				
COMSEC 256 bit AES Data encryption for use Note:- Not required if data option ordered with P		BCO40527				

Note:- This option requires an Australian Government Export Licence.

Options

O BARRETT		Option					
	4000 Series Catalogue	Part Number	Packaging Type	Net Weight			
4023 Clover 2000 HF Data modem internal fit PCB		BC402301	N/A	N/A			

Includes:-

- Serial cable P/N BCA90023
- USB to serial adaptor P/N BCA92318
- 2020 HF Email with internet and fax gateway software P/N BCA202005
- Clover link security and DES56 (Digital encryption standard) on air data encryption



				Accessories
O BARRETT	4000 Series Catalogue	Part Number	Packaging Type	Net Weight
Mobile pack		BCA40501	C6	1.25 kg
Has all parts required to use 4050 as a mobile tran configuration and to install it. Includes:- - Universal mounting plate for main unit P/N BCA4 - 6 metres control head cable P/N BCA40005 - Control head mounting adaptor P/N PW-33334 - Installation kit BCA40004		F		
Breakout box		BCA40050	C4	0.95 kg
For attaching multiple accessories and network ca second control head, ATU's, antennas, wifi, USB a Includes:- - Control cable P/N BCA97503 - Data cable P/N BCA40051 - 4000 Series IP Connectivity Networking Guide of - Breakout box product information document P/N	n USB P/N BCUSB40507			

GPS receiver	BCA40009	C4	0.15 kg	
Combined receiver / antenna to suit 4050 Transceiver.	8			
Includes:- - 4 metres cable and connector.				

				Accessor	ies
O BARRETT	4000 Series Catalogue	Part Number	Packaging Type	Net Weight	
Remote head interface cable - 6 metres		BCA40005	C4	0.55 kg	
For 4050 Transceivers.					
DC power cable and connector - 6 metres		BCA40006	C4	1.50 kg	
6 metres power cable with DB-15 combination co	nnector to suit 4050 Transceiver.		0	Ν	
Hand microphone with channel up/down I	buttons	BCA40010	C4	0.15 kg	
Microphone with up/down buttons and connector	to suit 4050 Transceiver.		B		
Hand / speaker microphone		BCA40023	C4	0.15 kg	
Combined speaker microphone with up/down but	tons and connector to suit 4050 Transceiver.		B		

					Ac	cessories
	O BARRETT	4000 Series Catalogue	Part Number	Packaging Type	Net Weight	
	Desk microphone		BCA40011	C6	1.0 kg	
	For 4050 transceiver					
	Headphones - lightweight		BCA40013	C6	0.30 kg	
Accessories	Folding headphones with connector to suit 4050	Transceiver - colour black.				
ories	Headset - with boom mic		BCA40040	C4	0.30 kg	
	Folding headphone with boom mic to suit 4050 T	ansceiver - colour black		Į		

				Acc	essories
O BARRETT	4000 Series Catalogue	Part Number	Packaging Type	Net Weight	
Loudspeaker		BCA40015	C4	0.20 kg	
Extension speaker with connector to suit 4050 Tra	ansceiver.				
Power supply stacking cradle		BCA40016	C4	0.50 kg	
For 4050 Transceiver and 4022 power supply.					
Universal mobile mounting plate		BCA40003	C4	0.50 kg	
Universal mobile mounting plate to suit 4050 Trar	nsceiver.			? < < < • • • •	
Fan unit		BCA40002	C4	0.30 kg	
For 4050 Transceiver in applications such as mot	pile data and medium duty cycle applications.				

O BARRETT				Ac	cessories
	4000 Series Catalogue	Part Number	Packaging Type	Net Weight	
Installation kit		BCA40004	C4	0.20 kg	
Includes					

Includes:-

- Large selection of screws to accommodate most installations
- Cable ties

Accessories

- Adhesive cable clips
- Screw driver attachment to suit screws for drill
- Rubber amalgamation tape
- Standard insulation tape
- Power cable lugs
- ATC fuse holder and 25 Amp fuses





Interference suppression kit	BCA40008	C4	0.45 kg	
To aid in supressing vehicle produced interference from alternators and small motors and ignition system.				
Includes:- - Supressors for alternators and motors - Lugs - Earthing cable - Clips	* * * (Control of the second sec	

CW key - lightweight	BCA40014	C4	0.40 kg		
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Brass CW key with leg strap and connector to suit 4050 Transceiver.

