

2050 HF SSB Transceiver

Part	Packaging	Net	
Number	Type	Weight	
BC205000	C2	4.35 kg	

2050 HF SSB Transceiver

Standard features:-

- 500 channels with frequency range 1.6 to 30 MHz

Note: See brochure for more detailed information.

- Power output 125 W PEP, power input 12 VDC nominal
- Software defined core & DSP
- Digital Selective Calling & Telcall 4 & 6 digit
- GPS & RS232 interface

Optional Features*:-

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



BC205000





BCA20010

BCA20015





BCA20006

BCM20500

Includes:-

Hand microphone with channel up/down buttons	BCA20010
Loudspeaker	BCA20015
DC power cable and connector - 6 metres	BCA20006
Barrett 2050 Operation and installation manual	BCM20500

^{*} For additional options and accessories, please see relevant section detail.



Digital voice module: DV

Commercial Catalogue

Options

Op 203	tion for	Part Number	Packaging Type	Net Weight	
	х	BCO20515	N/A	N/A	

Digital Voice Vocoder Module 700/1200/2400 bps

Includes:-

- -"TWELP" Vocoder
- -Clear Digital Voice

Note:-

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



Automatic link establishment (ALE) controller		Х	BCO20505	N/A	N/A	
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MIL-STD 188-141B 2G / FED-STD 1045 ALE

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 2000 series programming kit P/N BCA20001.





ption for 30 2050	Part Number	Packaging Type	Net Weight	

2030	2050	Number	Раскадіng Type	Net Weight	
х	Х	BCO20506	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.

Note:- Selcall option must be fitted.



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

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

Includes:-

Secure call

- -"TWELP" Vocoder
- -Clear Digital Voice

Note:-

- Factory internal fit only
- This option requires key management and keyfill software P/N BCA20521
- 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

Secure digital voice module with AES 256 encryption - SDV-256		X	BCO20520	N/A	N/A	
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Secure digital voice module auto vocoder 600/1200/2400 with AES 256 encryption

Includes:-

- -"TWELP" Vocoder
- -Clear Digital Voice

Note:-

- Factory internal fit only
- This option requires key management and keyfill software P/N BCA20520
- Can be implemented with Mil Data standards
- Can be implemented alongside Clover Data (Internal fit)
- This option requires an Australian Government Export Licence



N/A

N/A

BCO20521



Options

Options



Commercial Catalogue

Option fo 2030 20	or 050	Part Number	Packaging Type	Net Weight	
>	X	BCA20521	N/A	N/A	

N/A

For use with SDV-56 - P/N BCO20521

Includes:-

- Scrambler key injection software P/N BCUSB40521

Key management and keyfill software DES 56

- Serial cable P/N BCA90023
- USB to serial adaptor P/N BCA92318









N/A

Key management and keyfill software AES 256

For use SDV-256 - P/N BCO20520

Includes:-

- Scrambler key injection software P/N BCUSB40520
- Serial cable P/N BCA90023
- USB to serial adaptor P/N BCA92318



BCA20520









Option for Part 2030 2050 Number

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BCO20507

Packaging Type

N/A

Net Weight

Options

Frequency hopping

5 or 25 hops per second - no central synchronisation station, no net entry delay or late entry delay. ESU/GPS to be purchased seperately.

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



ARINC Selcall encoder

x E

BCO20508

BCO20509

N/A

N/A

N/A

Enables transmission of aviation ARINC standard selcall.



Voice encryption AES 256

Enables the 2050 to operate in AES 256 (Advanced encryption standard) mode with fall back analogue FFT scrambler for use on extremely bad HF channels.

Note:- Software CD and cables are not included. Please see key injection kit BCA20255.

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



N/A



Options

Optio 2030	on for 2050	Part Number	Packaging Type	Net Weight	
	х	BCO20510	N/A	N/A	

Voice encryption DES 56

Enables the 2050 to operate in DES 56 (Data encryption standard) mode with fall back analogue FFT scrambler for use on extremely bad HF channels.

Note:- Software CD and cables are not included. Please see key injection kit BCA20255.



Voice scrambler FFT x BCO20511 N/A N/A

Enables the 2050 to operate in FFT based voice scramble mode.

Note:- Software CD and cables are not included. Please see key injection kit BCA20255.

Internal Fit

Other encryption scrambling devices

Other encryption and scrambling devices are available for special applications, please ask our sales department about your specific requirements.

Key injection kit fo	r voice encryption	AES 256/ D	ES 56/ FFT
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Includes:-

- Scrambler key injection software P/N BCUSB20255
- Serial cable P/N BCA90023
- USB to serial adaptor P/N BCA92318



BCA20255





0.20 kg



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Optio	on for 2050	Part Number	Packaging Type	Net Weight	
Х	Х	BCA20501	C6	0.75 kg	

Has all parts required to use the 2030/2050 as a mobile transceiver in a remote control (trunk mount) configuration and to install it.

Includes:-

Mobile pack

- Universal mounting cradle for main unit
- 6 metres control head cable
- Control head mounting plate and adjustable arm
- Cap screw pack
- Barrett tool suits all Hex cap screws and Philips screws on 2030/2050
- Rubber weatherproofing bungs
- Installation kit BCA20004





PC Programming kit - for 2030/2050

Includes:-

- Software (operating manual included on the USB) P/N USB-20001
- Serial cable for 2050 Transceiver with 9 / 25 pin adaptors P/N BCA90023
- USB to serial adaptor P/N BCA92318



BCA20001



C4



0.20 kg

GPS receiver BCA20009 C4 $0.15 \, \text{kg}$

Combined receiver / antenna to suit 2050 Transceiver.

Includes:-

- 4 metres cable and connector to suit 2050 Transceiver



BCA20005 Remote head interface cable 6 metres 0.20 kg

For 2030/2050 Transceivers.





Accessories

Optio	on for 2050	Part Number	Packaging Type	Net Weight
х	х	BCA20006	C4	0.90 kg

DC power cable and connector - 6 metres

6 metres power cable with DB-15 combination connector to suit 2030/2050 Transceiver.



Hand microphone with channel up/down buttons	х	х	BCA20010	C4	0.15 kg	
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Microphone with up/down buttons and connector to suit 2030/2050 Transceiver.



Hand / speaker microphone x x	BCA20023	C4	0.15 kg	
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Combined speaker microphone with up/down buttons and connector to suit 2030/2050 Transceiver.



Headphones - lightweight	Х	Х	BCA20013	C6	0.30 kg	
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Folding headphones with connector to suit 2030/2050 Transceiver - colour black.





Headset

Commercial Catalogue

Accessories

Optio	on for 2050	Part Number	Packaging Type	Net Weight	
х	Х	BCA20040	C6	0.30 kg	

Folding headphones with microphone to suit 2030/2050 Transceiver - colour black.



Loudspeaker x x BCA20015 C4 0.20 kg

Extension speaker with connector to suit 2030/2050 Transceiver.



Universal mobile mounting cradle x x BCA20003 C4 0.35 kg

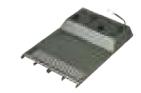
Suits 2050, 2030, 2060, 2061, 2022, 2021, 2023, 2024.



Fan unit x BCA20002 C4 0.15 kg

For 2050 transceiver in applications such as mobile data and medium duty cycle applications.

Note:- Refer P/N BCA20056 for continuous FEC applications for 2050.





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Option for 2030 2050		Part Number	Packaging Type	Net Weight	
x	Х	BCA20004	C4	0.20 kg	

C4

Includes:-

Installation kit

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



BCA20008

BCA20019



Interference suppression kit

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





0.45 kg

0.30 kg

3U Side - plate pack

Enables vertical stacking of three 2000 Series units.

Includes:-

- Two side plates
- Six side plate capstans



C4



otion for	Part
30 2050	Number

10

203

Packaging Type

C4

Net Weight

0.15 kg

Accessories

2U Side - plate pack

Enables vertical stacking of two 2000 Series units.

Includes:-

- Two side plates
- Four side plate capstans



500 Hz crystal filter

Х

BCA20502

BCA20016

N/A

N/A

N/A

For 2050 Transceiver - used for SITOR and PACTOR I & PACTOR II operation.



N/A

3.1 kHz mechanical filter

For 2050 Transceiver when full 300 Hz - 3.4 kHz 3 dB audio bandwidth required.





Desk microphone

For 2030/2050 Transceiver.

BCA20011

C6

1.0 kg



CW key - lightweight

Brass CW key with leg strap and connector to suit 2030/2050 Transceiver.



BCA20014

0.40 kg

