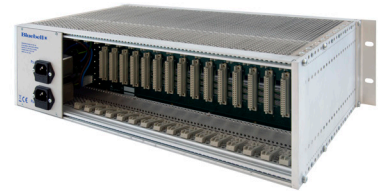


BC SERIES MODULAR FIBRE OPTIC INTERFACE SYSTEM



**BC100i Modular
Rack Frame System**



The BC100i is a major evolution of Bluebell's BC100 rack frame for the BC Series of fibre optic interface cards. Like the BC100, it features dual redundant power supplies and can hold up to 15 single-slot BC cards of any type, but provides significantly enhanced card monitoring.

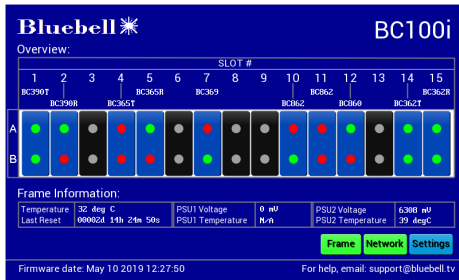
The BC100i is ideal for use in OB and live sound trucks, fixed installations and fly-away systems. BC Series cards plug into the rear of the frame so that all copper or fibre cabling is retained within the rack enclosure; system monitoring is presented on the front panel. External monitoring via an IP network is also available if an optional BM102i or BM103 network card is fitted into a dedicated rear slot ('Slot 16'). Both network card types are fully compatible with SNMP protocol v2.1.

The frame's main internal motherboard now includes a microcontroller and memory, handling all card status data. A 7 inch colour touchscreen on the front panel provides a continuous, colour-coded display showing the status of the signals on each card: this has been designed to resemble the LED display of the earlier BC100 frame, for immediate familiarity. Much additional information is also available on-screen, including confirmation of card type, PSU status, supply rail voltages and internal temperature. There is also a per-slot page displaying card-specific data, the nature of which depends on the card type. A page is also available providing information and status of an optional BM102i or BM103 network card, if one is fitted. A front panel USB port allows simple procedure for installing firmware updates from a flash drive.

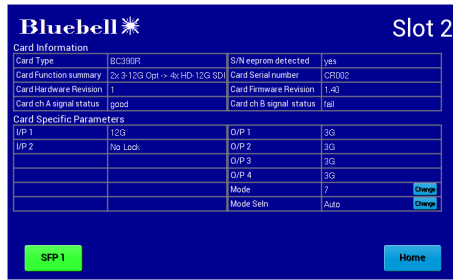
Dual redundant power supplies (PSUs) can be fitted: these are accessible and hot-swappable from the front of the frame. Each PSU is capable of powering a frame fully loaded with any BC Series card combination. The two PSUs have independent IEC AC inlets, and employ load sharing to feed the internal electronics, so there is no interruption should one PSU fail.

The standard frame uses convection cooling and will only require the provision of vertical spacing above and below in most installations to ensure satisfactory operation. However, for locations where the ambient temperature is particularly high, the frame may be ordered with a factory-fitted internal low-speed fan card which reduces the internal temperature by approx. 10 °C.

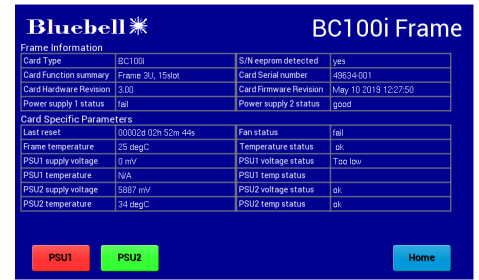
Front panel display examples



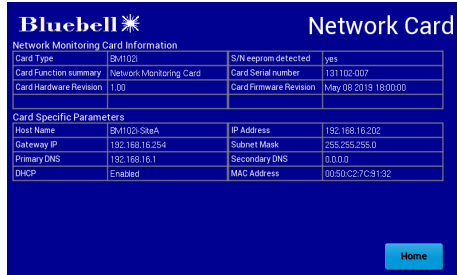
Home date page



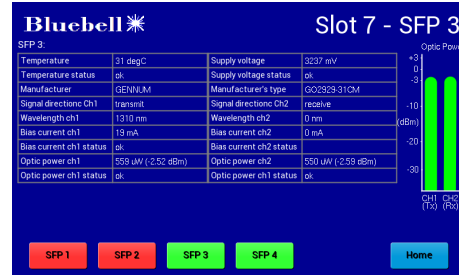
Slot 2 Card Info page



Frame page



Network Card page



SFP Info page (example)

Network Monitoring

To allow a Bluebell BC card system to be fully integrated into a facility-wide monitoring environment, two optional network monitoring cards are available for the BC100i. The BM102i is a replacement for the earlier BM102 card and makes the status of all signals, cards and PSUs available as a series of simple web pages that can be viewed anywhere on the connected network using a compatible browser. The BM102i

is fully compatible with third party SNMP management systems.

The BM103 is a more advanced version of network monitoring card: it provides all the monitoring functions of the BM102i, but adds wireless connectivity, faster Ethernet speeds and the capability of including image and video content in the monitoring data.

BC Series cards

The Bluebell BC Series of cards is a cost-effective and flexible modular system which facilitates the transport of many different kinds of signals over fibre-optic links, producing significant savings in cost and weight. The range is very extensive with over 100 card types: cards are available to interface 4K, 3G-SDI, HD-SDI, SD-SDI, DVB-ASI digital video, broadcast quality PAL/NTSC, MADI, AES/EBU and analogue audio, 10/100/1000baseT Ethernet and serial data with infrastructure or field-deployed fibre optic cables.

Specifications

BC100i General Specifications	
Number of card slots	15 + 1 for network card option
Power supplies	2 x 100W modular units, fully redundant
Power input	90 to 250 VAC, 47-63 Hz
Fuses	2 x T5AH 250V, integral with AC inlets
Operating temperature range	-30 °C to +70 °C
Dimensions (w x h x d)	445 mm x 132.5 mm (3RU) x 250 mm
Weight	11 kg (fully-loaded)
Warranty	5 years

Conformities	
EMI/RFI	89/336/EEC, EN55022B, EN61000-4-2, EN61000-4-4 (Level 2), EN61000-4-4FTB, EN61000-4-5, EN61000-4-11
Electrical	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4
RoHS	Directive 2002/95/EC

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