

BC Series Modular Fibre Optic Interface System



Description:

- Updated version of the BC100 rack frame with enhanced onboard monitoring and diagnostics
- Holds up to 15 single-slot BC Series fibre optic interface cards
- Dual redundant, hot-swappable front-access PSUs with independent AC inlets and load sharing
- 7" front panel touchscreen displays real-time status of all cards, including signal type, PSU status, voltages, and temperature
- Monitoring and configuration via SNMP v2.1 using optional BM102i or BM103 network card in dedicated Slot 16
- Rear card loading keeps all fibre and copper cabling neatly inside the rack enclosure
- USB port for simple firmware updates from a flash drive
- Available with optional factory-fitted fan card for high-temperature environments (reduces internal temp by ~10°C)
- Ideal for OB/live trucks, fly-away kits, and fixed installations requiring robust, modular fibre transport

BC100i Front Panel display examples

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Bluebell BC100i

Overview:

SLOT #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
BC3901	BC3908	BC3651	BC3658	BC369	BC362	BC369	BC362	BC362	BC362	BC362	BC362	BC362	BC362	BC362	BC362

Frame Information:

Temperature	32 deg C	PSU1 Voltage	0 mV	PSU2 Voltage	6398 mV
Last Reset	000024 14h 24m 50s	PSU1 Temperature	N/A	PSU2 Temperature	39 degC

Firmware date: May 10 2019 12:27:50

Card Info Page

Bluebell Slot 2

Card Information

Card Type	BC380R	S/N EEPROM detected	yes
Card Function summary	2x 2-12G Oct -> 4x HD-12G SD	Card Serial number	LR0302
Card Hardware Revision	1	Card Firmware Revision	1.03

Card ch A signal status: good | Card ch B signal status: fail

Card Specific Parameters

I/P 1	12G	O/P 1	3G
I/P 2	No Link	O/P 2	3G
		O/P 3	3G
		O/P 4	3G
		Mode	7
		Mode Seln	Auto

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Frame Page

Bluebell BC100i Frame

Frame Information

Card Type	BC100i	S/N EEPROM detected	yes
Card Function summary	Frame 3U, 15slot	Card Serial number	42834001
Card Hardware Revision	3.00	Card Firmware Revision	May 10 2019 12:27:50

Power supply 1 status: fail | Power supply 2 status: good

Card Specific Parameters

Last reset	000124 02h 52m 44s	Fan status	fail
Frame temperature	25 degC	Temperature status	ok
PSU1 supply voltage	0 mV	PSU1 voltage status	Too low
PSU1 temperature	N/A	PSU1 temp status	
PSU2 supply voltage	5887 mV	PSU2 voltage status	ok
PSU2 temperature	34 degC	PSU2 temp status	ok

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Network Card Page

Bluebell Network Card

Network Monitoring Card Information

Card Type	BM103	S/N EEPROM detected	yes
Card Function summary	Network Monitoring Card	Card Serial number	121150-007
Card Hardware Revision	1.00	Card Firmware Revision	May 09 2019 18:00:00

Card Specific Parameters

Host Name	DM103-316A	IP Address	192.168.18.202
Gateway IP	192.168.18.254	Subnet Mask	255.255.255.0
Primary DNS	192.168.18.1	Secondary DNS	0.0.0.0
DHCP	Enabled	MAC Address	00:50:C2:7C:81:32

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Bluebell Slot 7 - SFP 3

SFP 3:

Temperature	31 degC	Supply voltage	3257 mV
Temperature status	ok	Supply voltage status	ok
Manufacturer	GEN/NJM	Manufacturer's type	D02029-310M
Signal direction ch1	transmit	Signal direction ch2	receive
Wavelength ch1	1310 nm	Wavelength ch2	0 nm
Bias current ch1	19 mA	Bias current ch2	0 mA
Bias current ch1 status	ok	Bias current ch2 status	ok
Optic power ch1	553 uW (-2.52 dBm)	Optic power ch2	550 uW (-2.58 dBm)
Optic power ch1 status	ok	Optic power ch2 status	ok

Optic Power graph showing Ch1 (Tx) and Ch2 (Rx) levels.

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SFP Info Page(example)

Specifications

BC100i General Specification

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

General Specifications

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

Ordering Information

BC100i-3RU	19" 3RU Chassis for up to 15 BCxxx Cards with optional Network Monitoring and Dual Redundant Power Supplies (not supplied). Includes touchscreen display.
BC100i-3RU/48V	19" 3RU Chassis for up to 15 BCxxx Cards with optional Network Monitoring and facility for Dual Redundant Power Supplies (not supplied). Fitted with 48V dc input.
BM102i	Network Monitoring Card with Ethernet connection for Slot-16
BC140	Extender Card for BC100 3RU Chassis
PS100i	90-250VAC Power Supply for BC100i-3RU



Bluebell Opticom Limited,
Unit 2 The Quadrant,
Howarth Rd,
Maidenhead,
Berks,
SL6 1AP, UK
Tel: +44 (0) 1628 510055,
Email: sales@bluebell.tv
Website: www.bluebell.tv

