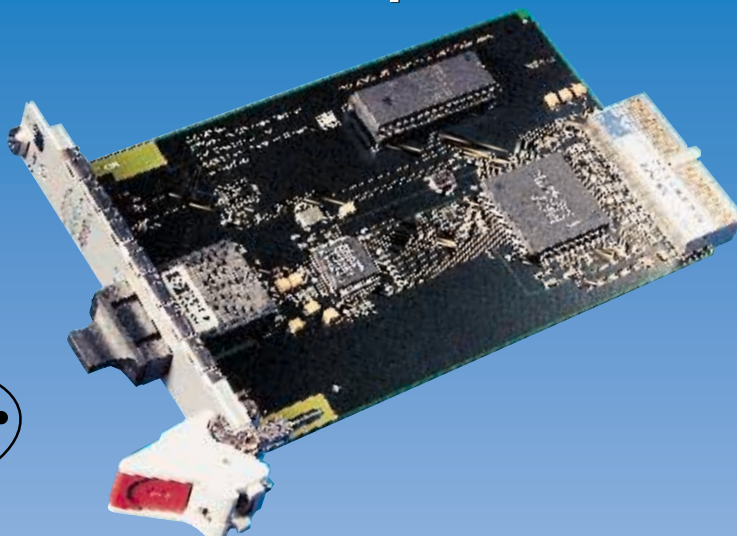




## CN2-BONGO

# *CompactPCI*<sup>®</sup> Fiber Optic Fast Ethernet Hostadapter



The hostadapter CN2-BONGO from EKF connects any *CompactPCI*<sup>®</sup> system by fiber optic cable to the most popular networking class, the 100Mbit/s Fast Ethernet LAN

The 3U board (single sized Eurocard) is provided with a duplex SC connector according to IEEE 802.3u 100Base-FX. The fiber optic transceivers can be used with 62.5/125micron multi-mode fiber cables over distances up to 2000m.

The CN2-BONGO is built around the high-end LAN controller chip Intel (DEC) 21143. All popular operating

systems, for example Windows98/NT or Linux, come with ready to use 21143 networking drivers, thus allowing effortless installation (plug&play).

The CN2-BONGO is best suited for systems working in noisy environments, or when long distances have to be bridged.

# Technical Specifications



## CompactPCI® Bus

- 32-Bit, 33MHz (133MB/s)
- 32-Bit DMA bus master (133MB/s)
- PCI burst mode
- 3,3V oder 5V interface

## Power Supply

- +5V ± 5% 0,8A max.
- +3,3V ± 0,3V 0,1A max.
- +12V ± 5% 30mA max.

## Temperature Humidity

- Operating Temperature 0-70°C
- Humidity 5-90% non condensing

*Technical specifications are subject to change without further notice*

## Board

3U Eurocard (100x160mm<sup>2</sup>), front panel width 20.2mm (4HP), mechanics constructed with respect to EMC requirements, ejector lever

## Ethernet IEEE 802.3u

- **Connector CON1**  
Dual SC fiber optic transceiver (1x9 industry standard package, PECL interface), 1300nm, up to 2000m fiber cable length, transceiver optical performance compliant with FDDI PMD 1 (ISO/IEC 9314-3:1990 and ANSI X3.166-1990)
- **Cable Type**  
62,5/125um multimode duplex fiber optic cable recommended, 50/125um as an alternate
- **Data Transfer Rate**  
100Base-FX (Fast Ethernet) 100Mbit/s (200Mbit/s full duplex)
- **Controller Chip**  
Intel/DEC 21143 PCI Ethernet controller, low power CMOS design, OnNow power management PC97, PC98, and ACPI compliant, independent DMA controllers for transmit/receive, handles data transfers between CPU memory and onchip memory
- **PHY Chip**  
LevelOne LXT970A, MII (Media Independent Interface), PECL Port
- **LED Array**  
3x2 LED: Rx, Tx, Collision, Link, 100Mb/s, FDX

<sup>1)</sup> the Fast Ethernet Alliance defines the Physical Layer for Fast Ethernet to be the FDDI PMD Standard

<sup>2)</sup> theoretical, depends on host CPU performance and network load in practice

## Ordering Information

Short Alias	Ordering No.	Description
BONGO	CN2-1-BONGO	3U CompactPCI fiber optic Fast Ethernet hostadapter 100Base-FX
	CR9-1-ADAPT	mechanical kit, converts frontpanel from 3U to 6U



**EKF – Solutions inside!**

EKF Elektronik GmbH ■ Philipp-Reis-Str. 4 ■ D-59065 HAMM (Germany)

Fax +49 (0)2381/6890-90 ■ Phone +49 (0)2381/6890-0 ■ Internet <http://www.ekf.de> ■ E-Mail [info@ekf.de](mailto:info@ekf.de)