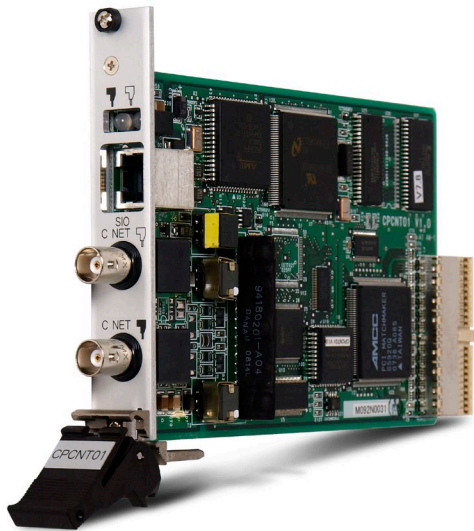# MITSUBISHI POWER

CPCNT01 Interface card

CompactPCI ControlNet™ Interface card

*ControlNet™ is ControlNet International's registered trademark.

ITEM	SPECIFICACTION
ControlNet communication rate	5 Mbps
Number of Maximum nodes	99 nodes (Maximum 127 connections)
Conncetion	75 Ω coaxial cable
Media access encoding	Manchester Encoding
Protocol	Media access through CTDMA (Concurrent Time Domain Multiple Access) Scheduled/unscheduled data transmitting
Frame data length	510 byte / frame
Data check method	CRC ($X^{16} + X^{12} + X^5 + 1$)/8 humming distance
Indicator	Comm A and Comm B Simultaneously 　Off (No power, or reset) 　Red (Inoperative) 　Red/Green flash (self-test) 　Red/Off flash (Bad node configuration) Comm A or Comm B (Individually) 　Off (Channel disabled) 　Green (Channel operational) 　Green/Off flash (Temporary network errors) 　Red/Off flash (Cable fault, broken cable, Redundancy warning) 　Red/Green flash (Bad network configuration)
Bus standard	PCI Local bus specification R2.1 base PICMG2.0 R2.1
Environmental conditions	(Operating) 　Temperature：0 to 55℃ 　Humidity：35 to 95% RH 　　　　　　　(No condensation) (Storage) 　Temperature：-10 to 70℃ 　Humidity：Less than 80% RH 　　　　　　　(No condensation)
Power supply	DC 5 V ±5% / typ. 1.0 A
Dimensions	174 mm (D) × 128 mm (H) × 20 mm (W) (3U × 1 Slot)

■ Outline

＊ 133 MB/sec CompactPCI bus

＊ ControlNet™ interface card

＊ 5 Mbps media duplicated communication interface

＊ 75 Ω coaxial cable

＊ Communication controller:
　　　　　32 bit microprocessor/25 Mhz

＊ ROM: 512 KB

＊ RAM: 2 MB

＊ 16 KB dual port RAM
　(for CompactPCI bus interface use)
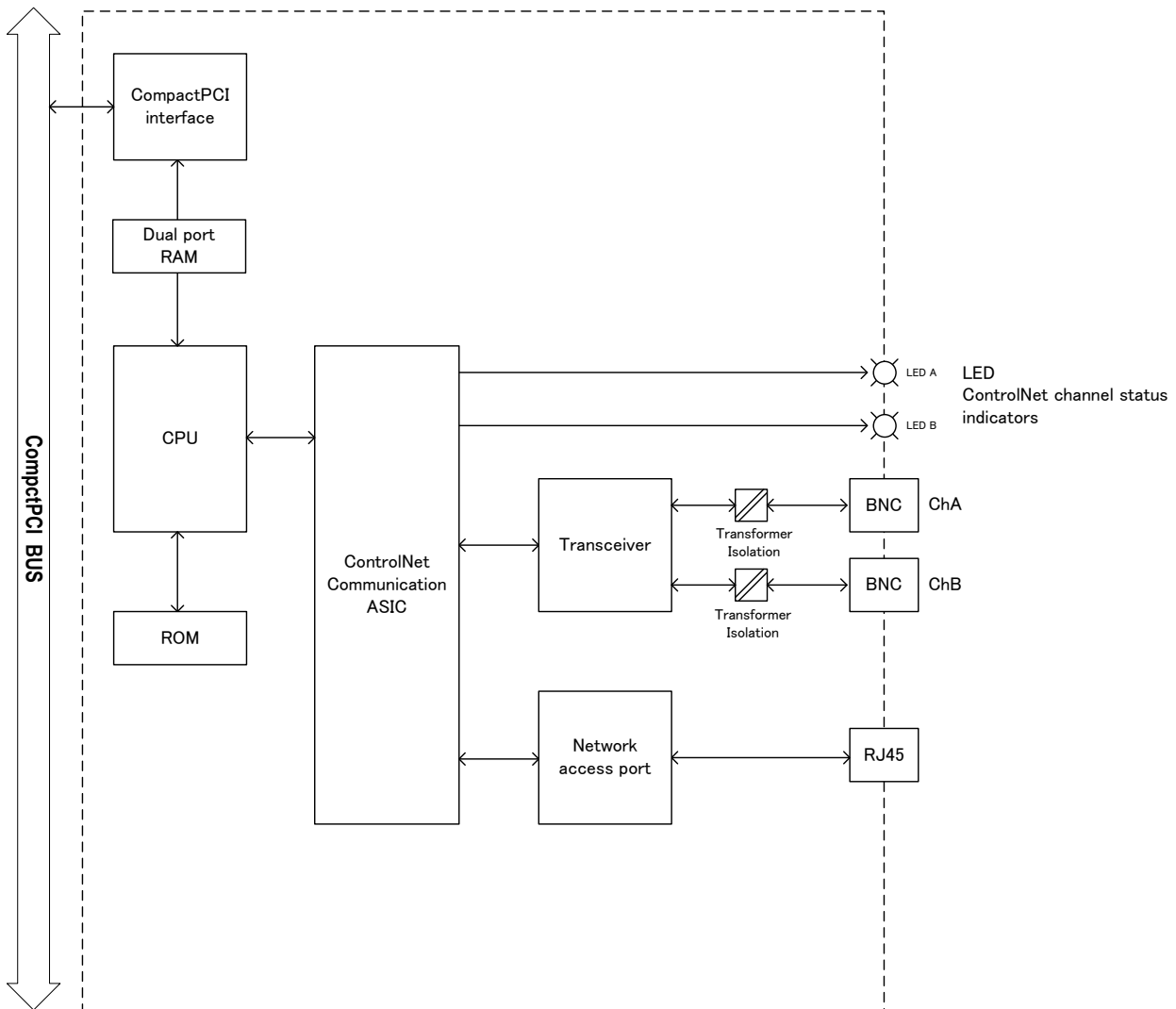
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CPCNT01   block diagram

When using, please read the instruction manual attached to the product carefully and use it properly.
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