CompactPlug-in interfaces - the next generation product for embedded industrial communication

► Profibus
► DeviceNet
► CANopen
► Profinet-IO
► EtherNet/IP
► Modbus-TCP
► PowerLink
► CC-Link
► Modbus-RTU
► RS232
► RS485
► USB
► Wireless
Designed to meet modern network connectivity requirements, featuring low price, small size and easy integration. Take a closer look at Anybus CompactCom!

Anybus Compact-Com, (Anybus-CC), has been designed to meet modern network connectivity requirements, featuring low price, small size and an easy integration process. At the same time, Anybus-CC provides the performance and functionality required to meet the communication demands of HMI’s, robot controllers, drives, valve blocks, instruments, scales and many more industrial products. The Anybus-CC module uses the CompactFlash® form factor and connector. The module is completely covered by a robust plastic housing, which enables easy handling and installation at any time in the logistic chain between manufacturer and end customer.

Innovative design and functionality - providing optimal flexibility.

The growing use and fragmentation of Industrial Ethernet and Fieldbus communication makes it even more difficult to decide which networks to support when you release a new product. Is only Proﬁbus enough for you or do you need to support several fieldbuses? What about Ethernet, which industrial versions will be the right choice? Should you have USB or RS232? Will your customers ask for wireless like WiFi or Bluetooth? Is there any new technology coming up?

Where do you intend to sell your product, which networks are used in different countries and different industries? What about conformance and certification?

There are many factors that need be considered before selecting the right communication interface for your product. With Anybus-CC you have full flexibility and can choose from a wide range of connectivity solutions for your product.

Gone are the days of a long and complex in-design for network connectivity. The flexibility of the Anybus-CC is unrivaled. You can choose from modules supporting Fieldbus networks, any Ethernet protocol, USB, Wireless or even a Serial interface without having to make any hardware or software changes to your product. With fewer requirements to size, cost,

Active and Passive modules provide a complete communication solution.

There are two versions of Anybus-CC modules available.

Active Modules: Handles the full protocol stack up to Layer 7, suitable for networks such as Proﬁbus, EtherNet/IP or CC-Link. All necessary software and hardware is included on the active Anybus-CC modules and they can be interfaced through an asynchronous serial interface or via a parallel interface. Both interface alternatives support the same data exchange methods, functionality and features.

- 8-bit 2kB Dual Port Ram Parallel Interface
- Asynchronous half duplex SCI Serial Interface

Passive Modules: Handles basic communications tasks such as converting serial telegrams to any supported network. It is suitable for USB, Bluetooth or as an Ethernet Serial Server.

- Passive SCI Serial Interface (Transparent pass-through)

Link Module: The Link Module concept consists of an active Anybus-CC module connected to an external converter that enables communication on the selected network. This is a way to use the Anybus-CC concept also for legacy networks such as Modbus Plus or Interbus.

With its unique CompactFlash® connection the Anybus-CC simply plugs into the host application.

Anybus Communicator as the external converter
Active Anybus-CC Link module

The Active & Passive family featuring Fieldbus, Ethernet, Serial, USB and Wireless modules.
Available for:
- Profibus
- DeviceNet
- CANopen
- Profinet-IO
- EtherNet/IP
- Modbus-TCP
- PowerLink
- CC-Link
- Modbus-RTU/ASCII
- RS-232
- RS-485
- USB
- Wireless

The module fastening is handled by the module mechanics; no additional mounting screws are required.

The only thing that needs to be considered is the fastening holes in the PCB. The PE (Protected Earth) connection is made on module insertion, via a metallic clip at the bottom of the module.

Ideal applications for ABCC integration

- Measuring Devices
- PLC’s
- I/O Blocks
- Drives and Micro Drives
- Valve Manifolds
- HMI’s

KEY FEATURES
- Cost optimized communication modules for nearly all industrial applications
- Supports all major Fieldbus Networks, Industrial Ethernet Protocols, RS232, RS485, USB and Wireless
- Plug-in CompactFlash® connection to host product
- Robust housing for easy handling and optimised logistics
- Low power consumption
- Very small and compact size
- All network hardware and software are integrated in the module
- On-board high performance RISC network microprocessor
- Parallel Dual Port Ram interface for maximum performance and data throughput
- Serial asynchronous interface with configurable baudrates
- Starterkit available including driver software and demo application

TECHNICAL SPECIFICATION
- Size: 52 x 50 x 22mm (L x W x H) 2.04 x 1.97 x 0.86” (L x W x H)
- Integrated PE (Protected Earth) protection
- Power Supply: 3.3V
- Temp: Operating 0°C to + 70°C Non-Oper. -40°C to + 85°C
- EMC Compliance: CE Marked
- UL&cUL Compliance: Pending
- RoHS conformance
- Tested and verified for Fieldbus and Network conformance
Network specific supported features - Anybus CompactCom

- **Profinet-IO - AB6206**
  - Supports all standard baud rates
  - Automatic baud rate detection
  - Supports LSS
  - Customizable Identity Information
  - Up to 32 TPDO's & 32 RPDO's (Corresponds to a total of 256 bytes of Process Data)
  - Up to 16383 ADI's can be accessed from the network as Manufacturer Specific Objects.
  - Diagnostic support
  - Galvanically isolated bus electronics
  - Available Q3 2006

- **USB - AB6209**
  - Supports all standard baud rates
  - Automatic baud rate detection
  - Supports LSS
  - Transformer isolated
  - Galvanically isolated bus electronics
  - Available Q2 2006

- **DeviceNet - AB6201**
  - CIP Parameter Object Support
  - Explicit messaging
  - Baud rate: 125-500 kbit/s
  - UCMM capable
  - Bit-strobed I/O
  - Change-of-state / Cyclic I/O / Polled I/O
  - Expansion possibilities via CIP forwarding
  - Customizable identity object
  - Automatic baud rate detection
  - Galvanically isolated bus electronics
  - Generic GSD-file provided

- **RS-485 - AB6208**
  - Baud rate: 100 Mbits/s
  - Transformer isolated Ethernet interface
  - Integrated static Webserver
  - Generic EDS-file provided
  - Available Q3 2006

- **EtherNet/IP-AB6205**
  - IP-address settings configurable through application interface, webpage, DHCP or via HMS config tool
  - Baud rate: 10/100 Mbits/s
  - EtherNet/IP adapter
  - Transformer isolated Ethernet interface
  - Integrated static Webserver
  - Available Q2 2006

- **Profinet-TCP - AB6204**
  - IP-address settings configurable through application interface, webpage, DHCP or via HMS config tool
  - Baud rate: 10/100 Mbits/s
  - Modbus TCP Class0, class1 & partial class2 slave functionality
  - Transformer isolated Ethernet interface
  - Integrated static Webserver
  - Available Q2 2006

- **Wireless**
  - Physical layer converter for the RS-422 or RS-485 communication standard
  - Supports any baud rate up to 10 Mbit/s
  - No configuration necessary, since the module acts only on the physical layer.

- **Ethernet/IP-AB6210**
  - Protocol compliant to IAOA/ANPA, Real-time classes 3+4
  - Address settings configurable through application interface and Ethernet services
  - Baud rate: 100 Mbit/s
  - Transformer isolated Ethernet interface
  - Integrated static Webserver
  - Available 2007

- **CC-Link - AB6211**
  - Total 128 I/O points (bit) and 32 words
  - Number of occupied stations: 1-4
  - Support profiles for a "Remote Device"
  - Baud rate: 156kbit/s, 625kbit/s, 2,5Mbit/s, 5Mbit/s, 10Mbit/s
  - Transformer isolated Ethernet interface
  - Available Q3 2006

- **Modbus-TCP-AB6203**
  - Modbus RTU slave functionality with RS232/485 on the fieldbus side
  - Max 256 byte input and 256 byte output process data
  - Optically isolated interface
  - Baud rate: 1,2 Kbit/s - 115,2 Kbit/s
  - Support for Class0, Class1 & partially Class2 slave functionality
  - Supports both RTU and ASCII

- **Starterkit**
  - The StarterKit provides a quick and simple way to test the Anybus CompactCom
  - A serial hardware adapter for connection to PC (The adapter can be used for test setup in PC environment and for software download to the CompactCom)
  - Also Included:
    - Anybus CompactCom module 1-2 pieces (for selected fieldbus or passive modules)
    - Application connectors
    - Anybus CompactCom mechanical drawings and manuals
    - Anybus CompactCom application driver software
  - Supports both RTU and ASCII

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