Intelligent building system EIB
IP-Gateway
IP-Gateway

IG/S 1.1

- MDRC, 6 modules wide
- Supply with 230 V AC and / or 12 V DC (backup)
- 10 MBit Ethernet connection (RJ45)
- Additional function: Programming of EIB devices over LAN with the iETS client of the ETS (from ETS2 V1.3 on)
IP-Gateway IG/S 1.1

- Converts EIB telegrams in IP-telegrams and vice versa
Advantages

- **Usage as area- or line coupler**
  
The IG/S can be used as an area- or line coupler. Thereby the local network (LAN) is used as a fast arealine (backbone).

- **Higher data transfer rate**
  
  By using the LAN as a backbone a higher data transfer rate is possible (10 MBit <-> 9.6 kBit).
As an area coupler

Ethernet (10 MBit)

Main line 1 (9.6 kBit)

IG/S 1.0.0

IG/S 2.0.0

With IG/S as area coupler up to 15 IG/S per ETS project are possible

G = EIB device

LK = Line coupler
As a line coupler

With IG/S as line coupler
15x15=225 IG/S per ETS project are possible

G = EIB device
IP-Gateway

Combination area- / line coupler

Ethernet

IG/S 1.0.0

IG/S 2.1.0

G = EIB device

LK = Line coupler
IP-Gateway

**In the network**

Router → Hub/Switch → Visualisation

- EIB Line 1
- EIB Line 2
- EIB Line 3
- EIB Line n

Ethernet

IG/S 1.1

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The ROUTER must be configured by the administrator, that it transmits the multicast telegrams sent by the IG/S!
More advantages

- **Easier interfaces**
  Visualisation and other PC applications can easier get data from EIB devices. They can listen to the telegrams on the LAN (-> OPC). They don’t need EIB interfaces themselves.

- **Open for the future**
  A lot of devices in the household and in the office today already have Ethernet connections. With an IG/S the EIB is open for communication to other systems and devices.
With OPC Server

OPC server
(1x per installation)

OPC client 1 (e.g. visualisation)

The OPC server is a software. If necessary it can be installed on the same PC, which runs the client (e.g. visualisation).

OPC client 2

EIB Line 1
EIB Line 2
EIB Line 100
IP-Gateway

OPC server software

OPC server software, which runs with the IG/S is available from:

- NETxAUTOMATION
  (www.netxautomation.com, contact: Mr. Furtak)

- ICONAG
  (www.iconag.de, contact: Mr. Pick)