



# **IP to ETI Gateway**

## **IEG 3000**

Short Description

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# 1 Features

The IEG 3000 IP to ETI Gateway is a 1 HU device to adapt IP distribution technology to DAB/DMB transmitters with ETI input interface.

Classic distribution links in DAB/DMB transmission were realized over SDH/G703 radio link. IP links are an economic alternative to this technology. Due to the fact, that IP networks are becoming more and more stable, this technology is now reliable enough for broadcasters to transport critical video and audio services.

The IEG 3000 implements latest state-of-the-art IP protocols and fulfils the increasing demand of integrating the IP data interface within the exciter additionally to the modulator. The product features a LAN/IP interface ready to be connected to the broadcaster's IP infrastructure. It supports advanced features such as forward error correction in compliance with the EDI protocol and has been especially designed to fulfil the requirements of transporting error free ETI over IP network.

## **The key features of the product are the following:**

- RJ45-LAN input interface
- ETI over IP transport
- 4 ETI outputs G703 (NI)
- IP packet re-ordering
- External 1 PPS
- Automatic jitter filtering
- Local and remote management interface
- SNMP support
- HTTP/browser based control interface
- Integrated GPS receiver (option)
- 2nd LAN IP input (option)

## 2 Technical Data

IP characteristics	Typical Value
Standards	RFC-791, RFC-768, RFC-3550, RFC-2250, RFC-2365, RFC-2236, RFC-3376, RFC-791
Connector Type	1x RJ45
Maximum bit rate (Fast-Eth.)	80 Mbps
Maximum bit rate (Giga Eth.)	100 Mbps
Protocol	IEEE802.3 10/100/1000 BaseT
Packet type	IPv4
Mode	Half/full duplex
Maximum network Jitter tolerance	500 ms
<b>De- Encapsulation</b>	
Protocol	UDP/DCP/IGMP (V2, V3)/VLAN
FEC decoding	EDI protocol
Standards	RFC-2733
<b>ETI- Output</b>	
Connector Type	BNC
Impedance	75 $\Omega$
Number of Outputs	4
Standards	ETS 300799
Protocol	NI
<b>1 PPS- Input</b>	
Connector Type	BNC
Impedance	>5 k $\Omega$
Level	LVTTL, TTL
<b>Control</b>	
Connection	2x RJ45 10/100 BaseT (1x local, 1x remote)
Protocol	TCP/IP v4, v6 SNMP v1, v2, v3 HTTP
<b>Operating environment</b>	
Power supply	85 V to 264 V AC
Frequency range	47 Hz to 63 Hz
Power consumption	30 W
Operating temperature	-5 °C to 50 °C
Height	3,500 m
Dimensions [mm]	19" x 1 HU x 560 mm [1 HU = 44.45 mm]
Weight approx.	3 kg
Humidity	90% non-condensing
<b>Storage recommendations</b>	
Storage temperature	-10 °C to +70 °C
Relative humidity in storage location	10 % to 80 % at 50 °C