

GT BLE 24D IP to 16 COFDM Edge Modulator

Reception of IP transport streams, processing and modulation to output
16 COFDM channels



Product Description

The GT BLE 24D is an optimized micro-headend for business-tobusiness applications. The device can receive IP transport streams provided by a cable or telecommunications operator and modulate the streams into COFDM channels. Thanks to the integrated advanced multiplexer, the transport streams can be easily processed and adapted to your network requirements. The quick and easy configuration is ensured by the friendly designed web interface.

Features

- ✓ Excellent price per COFDM channel
- ✓ Up to 16 COFDM channels on 4 RF outputs
- ✓ Optimized solution for B2B
- ✓ Multiplexer and PSI/SI processing integrated
- ✓ For measurement/monitoring test ports of the output signal
- ✓ COFDM channels individually switchable on/off
- ✓ SPTS and MPTS streaming (CBR or VBR)
- ✓ Control and management via web-UI
- ✓ Easy to install in 19" rack

HIGHLIGHTED SOFTWARE OPTIONS



GT MON
Monitoring & Logging



GT FEC
FEC Correction & Protection



GT ASE
Transport Stream Monitoring



GT SCR
Simulcrypt CSA Scrambler

See all available software options on catalog.wisi.de or contact your WISI sales representative.

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Technical data

Streaming-Input

IP-Inputs	128 pcs. per data port
IP-Standard	ISO/IEC 13818
IP-Input bitrate	Max. 425 Mbit/s per IPTS, Max. 850 Mbit/s total
IP-Input protocol	UDP/RTP/RTP+FEC Unicast and Multicast, IGMP v2 and v3
IP-TS-Input format	SPTS CBR/VBR, MPTS CBR
IP-FEC Inputs	Yes, with GT FEC,
IP-FEC compliance	SMPTE 2022-1, SMPTE 2022-2
IP-Packet format	MPEG over UDP/IP and RTP/IP
IP-Packet size	188 Byte
IP-PCR restamping	Yes
IP-Dejittering	Yes, per default 100ms, individual adjustable

Modulation COFDM

MER	> 40 dB (typ. 42 dB)
SNR	≥45 dB
Roll-Off	35 %
BER	≤ 1*10 ⁻¹⁰
I/Q Ampl. Imbalance	≤0,10 %
I/Q Quadratur Error	≤0,10 °
Modulation	QPSK, 16-, 64-QAM
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval	1/4, 1/8, 1/16, 1/32
FFT Mode	2k, 8k switchable
Spectrum flatness	± 0,3 dB
Shoulder attenuation	≥ 54 dB

RF parameters

Output ports	4 pcs.
Channels per port	up to 4 (2k-mode) or 2 (2k/8k-mode)
Output impedance	75 Ω
Output frequency range	45...862 MHz
Output frequency window	34,2 MHz/port
Output frequency steps	1 kHz

Technical data

Output frequency stability	± 10 kHz
Channel bandwidth	5 / 6 / 7 / 8 MHz
Output level (each RF port)	115(1 ch), 111(2 ch), 109(3 ch), 107(4 ch) dBμV
Output level stability	± 1 dB
Output return loss	≥ 14 dB (45 MHz) -1,5 dB/Octave
Output level steps	0...30 dB (0,5 dB steps)
Spurious (Inside TV-Channels)	> 58 dB
Spurious (outside TV-Channels)	45...450 MHz, typ. 66 dB, 450...862 MHz, typ. 64 dB

Processing

Service remultiplexing	Yes
PID filtering and remapping	Yes
PCR correction and de-jitter	Yes
Advanced PSI/SI regeneration	Yes
NIT generation	Yes
Encryption	Yes, DVB-CSA
Encryption throughput	Max. 300 Mbps (2k mode), Max. 150 Mbps (8k mode)
Processing bitrate	Max. 1200 Mbps total
Number of PIDs	Max. 2000 PIDs total

Connectors

RJ45	4 pcs. (2x Control Port, 2x Data Port)
F-socket RF- output	8 pcs. (4x RF-Output, 4x Test-Output -20dB ± 1dB)

General data

Power consumption	Max. ≤ 40 W
Power supply	Single power supply, internal, 90...260 V, 47...63 Hz
Operating temperature range	-5°C...+45°C, 23°F...113°F, (ETSI EN 300 019-1-3 Class 3.1)
Max. humidity (non-condensing)	95 %
Electro Magnetic Compatibility (EMC)	EN 50083-2, FCC CFR 47 Part 15 (Class A)
Signalling	Multicolor LEDs (Power on - green, Error - red)

To arrange an online demonstration
or discuss your project, please
contact export@wisi.de

