Blue Line Edge Series

GT BLE 23 Datasheet • Version: 2019-10-18



GT BLE 23 IP to 12 QAM Edge Modulator

Reception of IP transport streams, processing and modulation in up to 12 QAM channels, single power supply





Product Description

The GT BLE 23 is an optimized micro-headend for business-to-business applications. The device can receive IP transport streams provided by a cable or telecommunications operator and modulate the streams into DVB-C QAM 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. For easy installation, a wall-mounting kit or a 19-inch kit is included in the delivery.

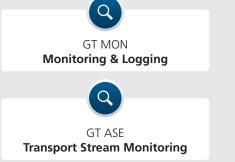
Scope of Deilvery

- √ 1x GTBLE chassis assembled with 1x GT23W module
- √ 1x Quick Guide

Features

- ✓ Excellent price per QAM channel
- ✓ Optimized solution for B2B
- ✓ Up to 12 QAM channels on 2 RF outputs
- ✓ Multiplexer and PSI/SI processing integrated
- ✓ For measurement/monitoring test ports of the output signal
- ✓ RTP/ IP input streaming with FEC error correction
- ✓ QAM 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





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

GT BLE 23 IP to 12 QAM Edge Modulator



| Technical data | |
|--------------------------------|--|
| Streaming-Input | |
| IP-Inputs | 128 pcs. |
| IP-Standard | ISO/IEC 13818 |
| IP-Input bitrate | Max. 425 Mbit/s per IPTS, |
| ii-iiiput bitiate | 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 |
| 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 |
| QAM Modulation | |
| Compliance | DVB-C (EN 300 429) |
| Modulation type | 16-, 32-, 64-, 128-, 256-QAM |
| Symbol rate | 4,457,00 MS/s |
| Roll-Off | 12%, 13%, 15%, 18% |
| MER | > 45 dB (typ. 46 dB) |
| BER | ≤ 1*10-10 |
| Spectrum flatness | ± 0,4 dB |
| Shoulder attenuation | ≥ 49 dB (typ. 50 dB) |
| RF parameters | |
| Output ports | 2 pcs. |
| Channels per port | up to 6 |
| Output impedance | 75 Ω |
| Output frequency range | 451002 MHz |
| Output frequency window | 48 MHz/port |
| Output frequency steps | 1 kHz |
| Output frequency stability | ± 10 kHz |
| Channel bandwidth | 8 MHz |
| Output level (each RF port) | 78108 dBμV |
| Output level stability | ± 1 dB |
| Output return loss | ≥ 14 dB (45 MHz) -1,5 dB/Octave |
| Output level steps | 030 dB (0,5 dB steps) |
| Spurious (Inside TV-Channels) | > 58 dB |
| Spurious (outside TV-Channels) | 45450 MHz, typ. 66 dB, 4501002 MHz, typ. 64 dB |

| Technical data | |
|--------------------------------------|--|
| Processing | |
| Service remultiplexing | Yes |
| PID filtering and remapping | Yes |
| PCR correction and de-jitter | Yes |
| Advanced PSI/SI regeneration | Yes |
| NIT generation | Yes |
| Encryption | No |
| Encryption throughput | - |
| Processing bitrate | Max. 1200 Mbps total |
| Number of PIDs | Max. 2000 PIDs total |
| Connectors | |
| RJ45 | 2 pcs. (1x Control Port, 1x Data Port) |
| F-socket RF- output | 4 pcs. (2x RF-Output, 2x Test-Output -20dB ± 1dB) |
| General data | |
| Power consumption | Max. ≤ 20 W |
| Power supply | Single power supply, internal, 90260 V, 4763 Hz |
| Operating temperature range | -5°C+45°C, 23°F113°F, (ETSI EN 300 019-1-3 Class 3.1) |
| Max. humidty (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) |
| Hardware revision | 1001 |
| Software version | 3.5 |

| Packaging data | |
|----------------------------------|--------------------|
| Sales unit | 1 pcs. |
| Dimensions (WxHxD) sales unit | 445 x 44 x 270 mm |
| Gross weight sales unit | 3,05 kg |
| Shipping unit | 1 pcs. |
| Dimensions (WxHxD) shipping unit | 395 x 545 x 140 mm |
| Gross weight shipping unit | 4,05 kg |

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

