



DVB-T-T2-C RECEIVER

Professional receiver for DVB-T, DVB-T2 and DVB-C signals, equipped with Common Interface, with one ASI and four IP outputs per receiver which makes it equal to 6 receivers in one.



CableWorld's latest receivers are available in several versions to meet user demand. The fully equipped 19-inch rack contains six tuners that are capable of receiving DVB-T, DVB-T2 and DVB-C signals and four CI slots (Conditional Access Module receivers) that may be already known from the previous devices. The CI slots are available only for the first four tuners, the fifth and sixth ones are reserved for the free-to-air programs. The output streams are available through both ASI and IP outputs.

Setting up the device is very simple: in automatic mode on the web interface only the frequency and bandwidth need to be set among the reception parameters. After a successful tuning detailed modulation parameters are shown and the reception parameters is also given (such as: input signal level, signal quality, signal to noise ratio, etc..).

The settings of CAMs plugged in the CI slots can be queried and modified. With one module several encrypted programs can be decrypted simultaneously. In order to decrease the output data rate the unwanted encrypted programs can be filtered.

The outgoing data streams can be transmitted towards 4 destinations with unicast or multicast addressing. Additionally, they can be VLAN tagged and therefore delivered to different providers' network.

The output signals are multi-program transport streams, however the device can provide single-program transport streams as well.

Fields of application:

- ✓ feeding headends with DVB-T, DVB-T2 or DVB-C signals over ASI or IP
- ✓ as a measuring receiver for DVB-T and DVB-T2 transmitters or CATV headends using DVB-C modulation

- ✓ 1, 2, 4 or 6 tuner in one frame
- ✓ receiving DVB-C, DVB-T and DVB-T2 signals
- ✓ with Common Interface
- ✓ web interface
- ✓ separated management port
- ✓ 64 IP outputs (SPTS or MPTS) & ASI outputs
- ✓ receptacle for SFP (Mini GBIC) module
- ✓ software upgrade over web interface
- ✓ VLAN tagging
- ✓ LED indicators of the active inputs
- ✓ built-in TS analyzer
- ✓ FPGA circuitry
- ✓ extremely low power consumption
- ✓ available for 24 V and 48 V, too

DVB-T-T2-C RECEIVER



Technical data

RF input data

Input frequency range	44 ... 1002 MHz
Tuner type	MxL603 Silicon Tuner (MaxLinear)
Bandwidth	6, 7, 8 MHz
Noise factor	typically 3,8 dB
Raster frequency	1 kHz
Total AGC range (RF+IF)	better than 60 dB
RF input impedance	75 ohm
Return loss	typically 10 dB (max. 8 dB)
RF input connector	F socket

Transmission parameters

Demodulation	MN88472 IC (Panasonic) DVB-T, DVB-T2, DVB-C compatibility
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DVB-T

FFT size	2k, 8k
Modulation	QPSK, 16QAM, 64QAM
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
Guard interval	1/4, 1/8, 1/16, 1/32
AFC range	typically ±900 kHz
TPS	decoding and application

DVB-T2

Bandwidth	(1,7) 5, 6, 7, 8 MHz
FFT felbontás	1k, 2k, 4k, 8k, 16k, 32k
Guard interval	1/4, 1/8, 1/16, 1/32 1/128, 19/128, 19/256
Modulation	QPSK, 16QAM, 64QAM, 256QAM
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
AFC range	typically ±900 kHz
TPS	decoding and application

DVB-C

Modulation	according to EN 300 429 16QAM, 32QAM, 64QAM 128QAM, 256QAM
Symbol rate	0,7 ... 7 MBaud
AFC range	typically ±500 kHz

IP output

Transport streams	10-, 100- and 1000Base-T
Protocol	Ipv4, ARP, UDP
Number of outputs	64 UDP/RTP stream/device
Stream	MPTS and SPTS
VLAN tagging	configurable for all outputs
Connector type	RJ-45
Optical output	receptacle for SFP (Mini GBIC) module

ASI output

Standard	according to EN 50083-9 (for interconnection between devices)
Impedance	75 ohm
Connectors	BNC sockets (for each tuner)

Management port

IP input	10-, 100Base-T
Protocol	Ipv4, ARP, ICMP-ping, TCP, UDP
Connector type	RJ-45

General data

Mass	about 4,8 kg
Physical dimensions	19" × 1 RU
W × H × D	483 × 43,6 × 473 mm
Service period	continuous
Power requirement	90 ... 264 V, 47 ... 440 Hz
Power consumption	max. 50 W
Temperature at operation	+5 ... +40°C, relative humidity max. 80 %

Programming of the device

Programming and control	over separate management port, in web environment, optimized to the Firefox browser
Management IP address	192.168.10.10

Ordering data:

- CW-4631** 1xDVB-T-T2-C tuner in one frame, without CI for FTA programs, ASI and IP output
- CW-4632** 2xDVB-T-T2-C tuner in one frame, without CI for FTA programs, ASI and IP output
- CW-4634** 4xDVB-T-T2-C tuner in one frame, without CI for FTA programs, ASI and IP output
- CW-4636** 6xDVB-T-T2-C tuner in one frame, without CI for FTA programs, ASI and IP output
- CW-4641** 1xDVB-T-T2-C tuner in one frame, each tuner has Common Interface, ASI and IP output
- CW-4642** 2xDVB-T-T2-C tuner in one frame, each tuner has Common Interface, ASI and IP output
- CW-4644** 4xDVB-T-T2-C tuner in one frame, each tuner has Common Interface, ASI and IP output
- CW-4646** 6xDVB-T-T2-C tuner in one frame, 4xCI, 2x tuner for FTA programs, ASI and IP output

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