

Rene Stevens, not only a radio amateur with the call PE1CMO, but also a radio engineer in his own company for wireless reporting systems for the broadcaster. In this way he has sufficient experience in the development and production of high-quality HF systems. Whether this is for the professional broadcaster, or Radio amateurs does not matter.

Radio Amateur Products:

Converters:

70cm: RX down converter 70cm to 144 MHz or 28 MHz.
The low noise with high intercept point in a small aluminum case.
€ 160,00



23cm: RX down converter 23cm to 144 MHz
The low noise with high intercept point in a small aluminum case.
€ 160,00

Oscar 100: RX down converter,

with a 25 MHz PLL reference for the LNB, a 2nd down converter from 739 to 432 MHz.
Converter needs a 10 MHz GPS reference for the low noise PLL's and a optimum frequency stability. The 739 is filtered to eliminate influences from the TV transponder in the same Es Hail satellite.
The converter is built in a 150 x 118 x 52mm waterproof aluminum enclosure.
In and outputs are N connectors.
Jumper settings for change 70cm frequencies.



Price € 160,00
Board only € 100,00 (tested)

LNB, we used a chinese LNB. The internal reference is changed into a externa reference from the converter.

Price € 25,00
Price converter and LNB € 175,00



Oscar 100: Up converter

Es-Hail TX up converter, needs a 10 MHz GPS controlled oscillator reference for a frequency stable signal. A 70cm signal (1 to 5 Watts) is mixing up to 2400 MHz, maximum input 10 Watts.

The upconverter is built in a 150 x 118 x 52mm waterproof aluminum enclosure, In and outputs are N connectors. At the bottom a Heatsink.
(the waterproof enclosure is the same as the down converter)

Price:

Transverter pallet. This is a completely assembled and tested print mounted on a 10mm thick aluminum plate for cooling and mounting for the coax connectors. You can place the pallet in your own cabinet and heatsink. (126 x 76mm)

Pallet only (tested) Price € 300,00
Kit, pallet and heatsink + aluminium cabinet Price € 375,00
Pallet placed into a aluminum cabinet and heatsink Price € 425,00

Oscar 100: complete up and down transverter.

A transverter is a combined RX down converter and a TX up converter and a PTT switch.

The converter has a 25 MHz PLL reference for the LNB and a 2nd down converter from 739 to 432 MHz. The received signal is delivered to the 70cm set via a PTT switch and a 20 Watt RF attenuator.

If you go to transmit, via the 20 Watt attenuator and the RF switch, the signal is mixed to 2400 MHz. A 2 stage filtering and a power amplifier makes maximum of 20 Watts RF. All local oscillators in the transverter are locked to a external 10 MHz GPS reference.

PE1CMO sells the transverter in 3 stages:

1: the bare module. This is a milling aluminum enclosure with the transverter board and the 20 Watt amplifier. RF input (432), LNB input and RF output possible in N or SMA connectors.

The 10 MHz refence input is with a SMA.

At the bottom there 6 holes (M4 treat) to place the unit at a heatsink.

Power supply 12V 0.5A and 30V 3A

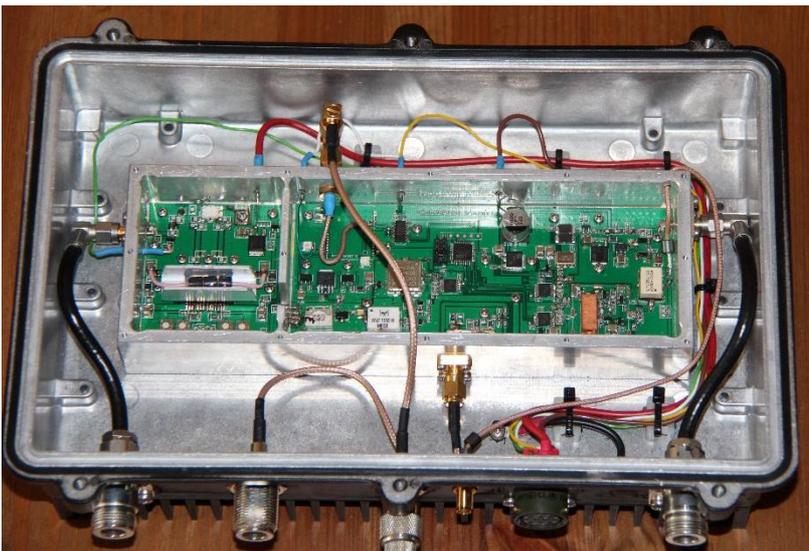
Price € 550,00



2: The bare module, but now included a milled and drilled waterproof housing. All the patch cables, connectors and a heatsink included. You can install the module yourself in the cabinet, cables on and ready.

(including a modified LNB)

Price € 700,00



3: The same as 2, but now we install the bare module into the cabinet.

(including a modified LNB)

Photo: module into a cabinet

Price € 800,00

Oscar 100: 20 Watt Amplifier

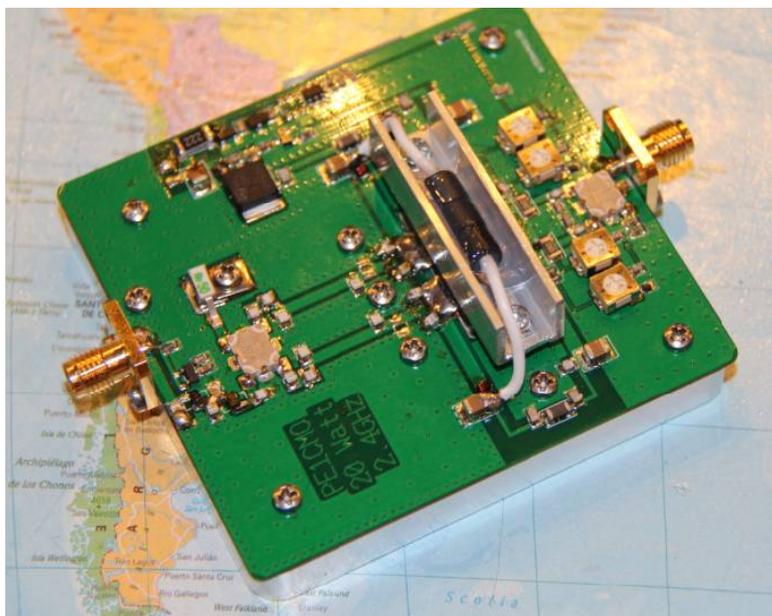
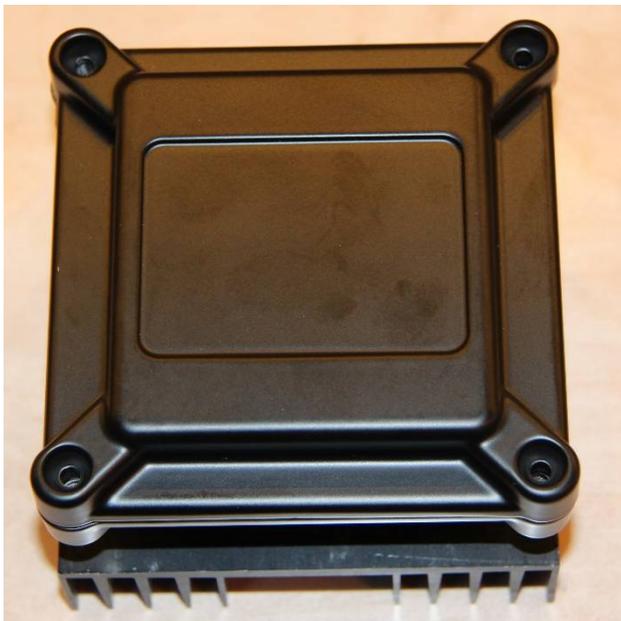
To make good contacts a stable amplifier is a must. The amplifier is linear enough for 5 Watt TV (DVB-S) or 20 Watt SSB. It is a low cost design with double RF module from Ampleon.

The input for about 20 Watts out is 70 to 80 mWatts. Supply voltage is 30V 3 – 4 A (meanwell)

I have made the final stage for the complete transverter, but for the individual sales the design has been adjusted in a nice waterproof housing.

The complete amplifier is installed on a heatsink and the connections are N connector.

Dimensions: 100 x 100 x 85 mm



Price:

pallet amplifier into a waterproof enclosure € 189,00

pallet, complete tested board on a aluminum plate € 125,00

pallet as above. on a heatsink (without enclosure) € 150,00

(connection for pallet: SMA in, out SMA or N)

Powersupply Meanwell RSP-100-27 (can be trimmed to 30V) € 55,00

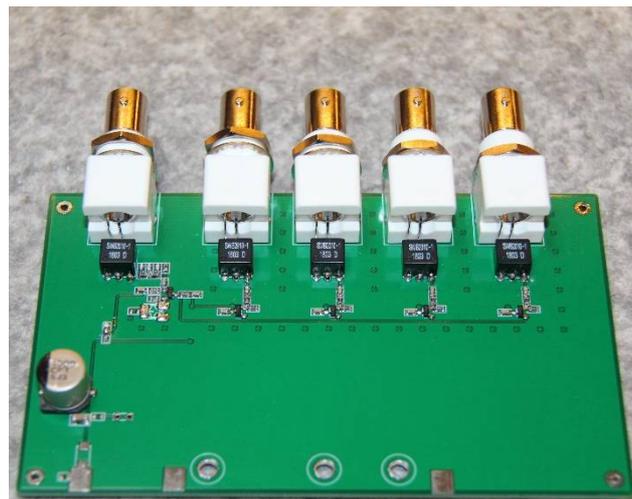
Reference splitter.

Sometimes you needed more reference signals. For that case we make a reference splitter.

1x input and 4x output with isolation transformers for eliminate ground-loops (and hum)

Price board € 60,00

into a cabinet € 100,00



Not in my shop, but very important, a good GPS disciplined 10 MHz reference oscillator. At Ebay you can find a good design from BG7TBL: Only a GPS disciplined oscillator is stable enough for Oscar 100.

HF to 70cm transverter.

This is a small piggyback board for the TX converter or the complete transverter.

This board convert the 28 MHz signal to 70cm, and the 70cm to 28 MHz. maximum 10mWatt at 28 MHz make's about 10 to 20 mWatt at 70cm and the Rx signal from 70cm mixing down to 28 MHz.

Price board with all components and tested,

€ 100,00 incl VAT

All prices are including VAT

Shipping:	NL	7,50
	BE, D	12,50
	EU	20,00
	USA	30,00
	World	40,00

Folder 15 june 2019

For professional reporter products for broadcasters: www.hfprints.com
Here a demo for RAC1 radio in Barcelona, Renè, PE1CMO on the right.



Qty	Product	price each	Total
....	Transverter model 1 module	€ 550,00	
....	Transverter model 2 kit	€ 700,00	
....	Transverter model 3 assembled	€ 800,00	
....	dualband feed	€ 75,00	
....	power supply 27 (30V) 100VA	€ 50,00	
....	power supply 12V 35VA	€ 15,00	
....	extra power connector XLR	€ 12,50	
....	mini din voor Yeasu PTT	€ 3,50	
....	plastic enclosures for dualbandfeed	€ 20,00	
....	Extra LNB modified	€ 25,00	
....	Reference splitter	€ 60,00	
....	Upconverter pallet	€ 300,00	
....	Upconverter pallet + kit	€ 375,00	
....	Upconverter complete	€ 425,00	
....	Downconverter board	€ 100,00	
....	Downconverter complete	€ 160,00	
....	Amplifier pallet	€ 100,00	
....	Amplifier complete	€ 175,00	