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 incl. VAT

LNB, we used the "Inverto" LNB. The internal reference is changed into a externa reference from the converter.
Price € 50,00 incl. VAT
Price converter and LNB € 200,00 incl. VAT

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 (maximum 5 Watts) is mixing up to 2400 MHz, maximum 20 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.

Coming soon !!

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: https://www.ebay.com/itm/142168059862 Only a GPS disciplined oscillator is stable enough for Oscar 100.

Transverter.

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.

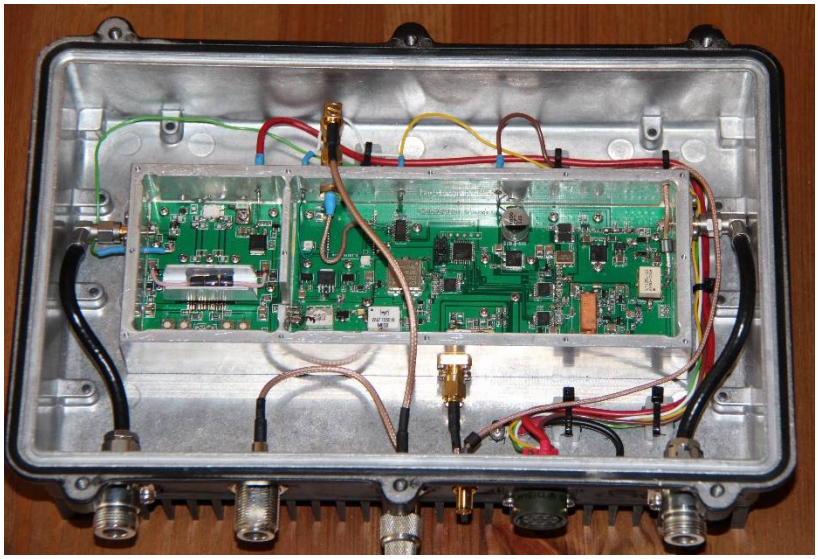
PE1CMO sells the transverter in 3 stages:

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 incl VAT

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.

Price € 700,00 incl VAT



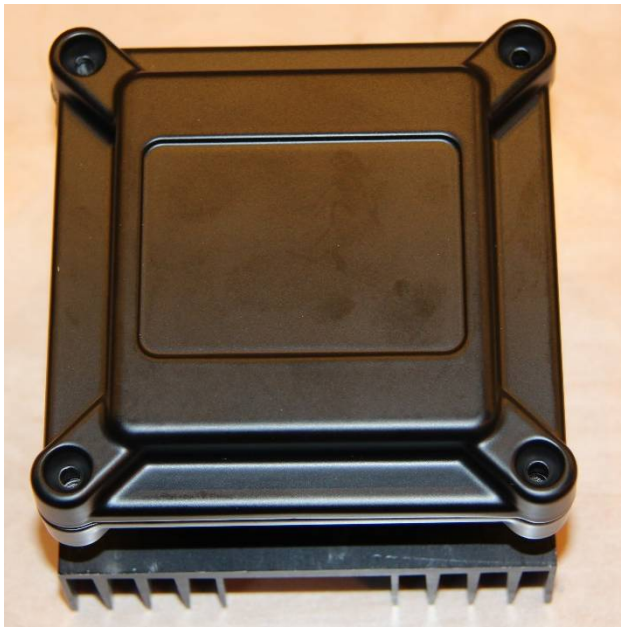
3: The same as 2, but now we install the bare module into the cabinet.

Photo: module into a cabinet

Price € 800,00 incl VAT

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) of 20 Watt SSB. It is a low cost design with double RF module from Ampleon.
The input for about 20 Watts out is 40 to 50 mWatts.
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 € 160,00 incl VAT

Comes out on March 20th

Only a PCB board with documentation, yes we can sent a PCB board, email us

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

Folder 2 march 2019

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