


<p align="center">Virtual Optical Converters 4 x QUAD/QUATTRO SAT-IF and 1 x DTT/DAB/FM outputs</p>	<p align="center">TVx 05 Series</p>
	<p align="center">TVC 05 - QUAD P/N: 307627</p> <p align="center">TVQ 05 - QUATTRO P/N: 307629</p>

General description:

The TVC 05 and TVQ 05 Virtual Optical Receiver Nodes are optical-to-coax converters, that converts the frequency stacked optical signal from a TOL32 LNB, or a TOU232-KIT Sidecar unit into a (TVC 05) traditional Universal Single coax signal, as if it had just been delivered directly from a normal Universal Single LNB or a Universal QUAD LNB, or into a (TVQ 05) 4 polarity output coax signal, as if it had just been delivered directly from a normal Universal QUATTRO LNB. In addition to the 4 SAT-IF outputs the convertors also provides a coax DTT/DAB/FM signal diplexed onto every output (TVC 05), or on a separate output (TVQ 05), if this signal has been inserted at the LNB headend (using a TOU232-KIT and Sidecar).

Common features:

- Can be used with the TOL32 LNB, but in that case no DTT signal will be present on the DTT/DAB/FM connector or on SAT-IF outputs.
- Can be powered directly by the attached Multi switch or Settop Boxes respectively, but can also be powered via an external 20VDC Power Supply (optionally, not included).
- Built in AGC which allows a wide dynamic range of optical powers without affecting output power and quality. Two LED indicators allow the user to observe the status of the unit.
- Easy mounting via a wall baseplate. A slide-on cabinet hides all cables and connectors, but still lets LED indicators be visible.

Technical Specifications:

Product names and Item numbers	TVC 05 QUAD TVQ 05 QUATRO	307627 307629	EAN 5702663076273 EAN 5702663076297
Satellite (Electrical)			
Parameter	Minimum	Maximum	Unit
RF Frequency range	950	2150	MHz
Output Impedance	75		Ω
Return loss	10		dB
Gain variation across band		7	dB
Nominal output level (TVC 05 QUAD)	70 *)		dB μ V
Nominal output level (TVQ 05 QUATRO)	75 *)		dB μ V
Terrestrial rejection	30		dB
*) additional variation can occur due to transmitted signal levels			
DTT, DAB and FM (Electrical)			
RF Frequency range			
DTT	470	862	MHz
DAB	174	240	MHz
FM	88	108	MHz
Nominal impedance	75		Ω
Return loss	10		dB
Nominal DTT output	68		dB μ V
Gain variation across band		5	dB
Noise Figure @ max. gain		6	dB
950-2150 Mhz rejection	20		dB
SAT, DTT, DAB and FM (Optical)			
Optical wavelength	1100	1650	nm
Optical input power	-15	0	dBm
Control signals (TVC 05 QUAD version only)			
Vertical select voltage (nom. 13VDC)	11	14.5	VDC
Horisontal select voltage (nom. 18VDC)	15.5	19	VDC
Low / High Band select tone	0	22	kHz
DC specifications			
Input voltage range	10	20	VDC
Current consumption (TVC 05 QUAD)		220	mA @10VDC
Current consumption (TVQ 05 QUATRO)		210	mA @10VDC
Connectors			
TVC 05 QUAD output	4 x F-female		-

TVQ 05 QUATRO output	5 x F-female		-
Power supply (plug type)	2.1 / 5.04		Mm Ø
Optical input	FC/PC-female		-
Environment specification			
Operating temperature	0	40	°C
Storage temperature	-20	70	°C
Dimensions			
Size (electrical unit, no plastics)	109 x 136 x 50		mm
Size (base wallplate)	115 x 127 x 40		mm
Size (cover cabinet)	149 x 183 x 58		mm
Optical cabling			
Fibre type	Single mode		-
Standard	G.657.A		-