

Introducing...

New TOL32/64T Triax Fibre Optic LNB product



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New TOL32/64T Triax Fibre Optic LNB product



The Triax TOL32/64T is an upgrade of the SAT-IF-only TOL32 LNB product. TOL32&64T supports distribution of digital TER signals in addition to SAT-IF.

NOTE: The TOL32/64T name is a temporary work title for the sake of this presentation!



TOL32/64T - Fibre Optic SAT+TER LNB

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- A 'new' product developed by UK company Global Invacom, ready for mass production and available out of China production Q2 2010
 - Global Invacom Ltd. (GI) call this product the 'Fibre IRS'
 - 'IRS' is a UK term: 'Integrated Reception System'
 - Temporary Triax name is: TOL32/64T, SAT+TER Optical LNB.
 - The plan is to launch the new product in parallel (simultaneous) with GI
 - Product provides digital TER input (DTT and DAB) + SAT-IF
 - This is NOT a substitution for the original TOL32, and is only needed if digital TER signals are required by the customer.
 - Single unit solution is for a maximum of 32 Converters (as TOL32)



TOL32/64T – How it works (1)

LNB in same housing and function as TOL32, but without Fibre Optic Transmitter



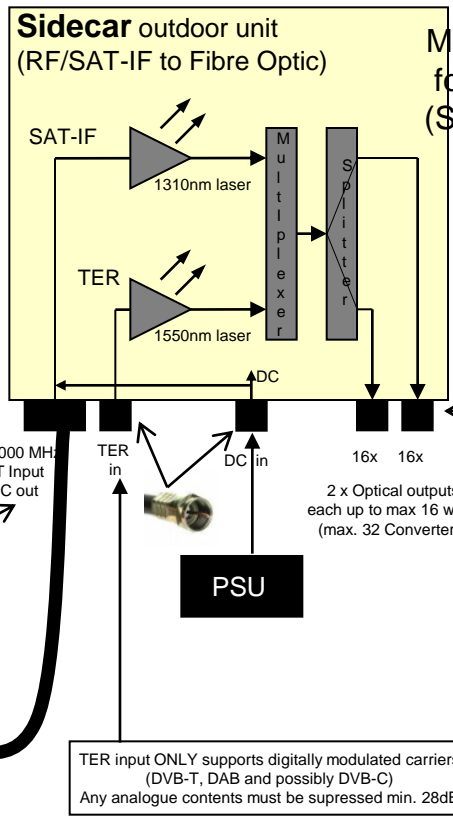
950-6000 MHz
4 polarities
stacked output
+DC input



N-connector

950-6000 MHz
SAT Input
+DC out

2 meter 6 GHz HF cable



Mounting bracket on back for mounting on dish pole (Size almost as Converter)



TOL32/64T – How it works (2)

LNB in same housing and function as TOL32, but without Fibre Optic Transmitter



950-6000 MHz
4 polarities
stacked output
+DC input

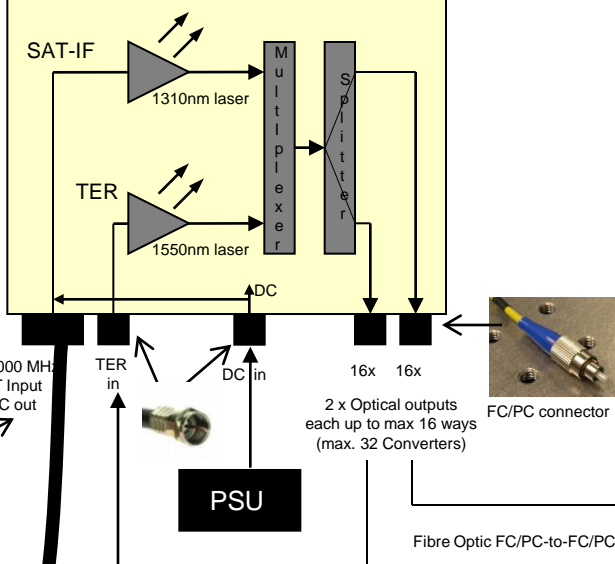


N-connector

950-6000 MHz
SAT Input
+DC out

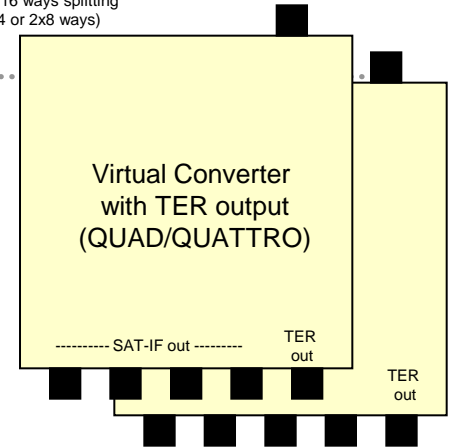
2 meter 6 GHz HF cable

Sidecar outdoor unit (RF/SAT-IF to Fibre Optic)

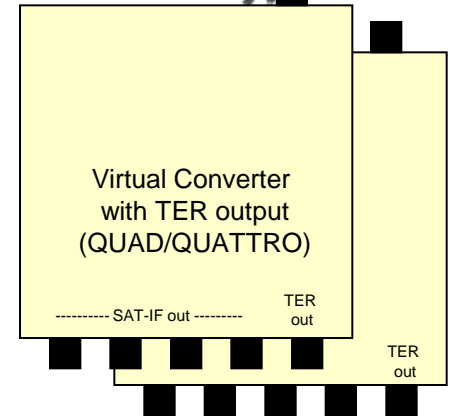


TER input ONLY supports digitally modulated carriers
(DVB-T, DAB and possibly DVB-C)
Any analogue contents must be suppressed min. 28dB

Maximum of 16 ways splitting
(2x2x4 or 4x4 or 2x8 ways)



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(2x2x4 or 4x4 or 2x8 ways)



Total of 32 Converters

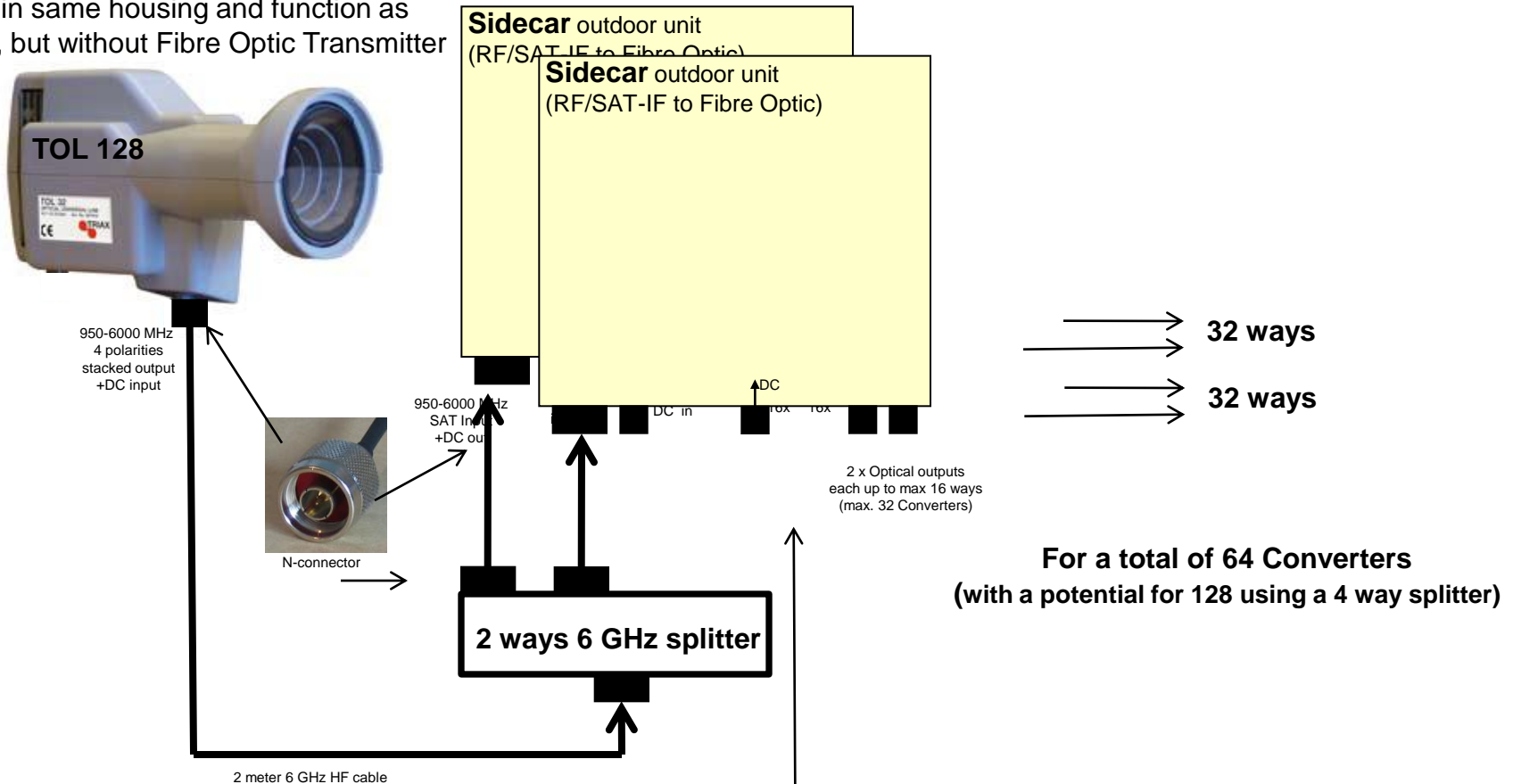
Main difference to TOL32 product is that TOL32/64T Sidecar always has a minimum of 2 Fiber Optic outputs (each for max 16 ways of splitting)



TRIAX - your ultimate connection

TOL32/64T – How it works, alternative (3)

LNB in same housing and function as TOL32, but without Fibre Optic Transmitter



SAT-IF 950-6000 MHz signal can be split using dedicated 2-way active splitter. Splitter also has DC throughput for TOL32/64T

Identical TER distribution to every 'Sidecar' TER input



TOL32/64T - Fibre Optic SAT+TER LNB

- **SUMMARY** information:
- The TER input accepts ONLY digitally modulated carriers (DVB-T and DAB, and probably also DVB-C), but NO analogue signal is possible!
- Analogue carriers saturates laser power and is therefore not permitted. (For analogue needs, use: OTX/ORB products)
- Analogue carriers present on the TER input (e.g. via antenna) must be suppressed by min. 28dB (via TMB solution or channel filter/converter)
- Only dedicated 2/4-way High-Frequency active splitters can be used.
- 2 meter dedicated TOL32/64T-to-Sidecar HF cable must be used
- TOL32/64T/Sidecar solution requires Virtual Converter with TER output (2 versions available: TVC 05 - QUAD and TVQ 05 - QUATTRO)



TOL32/64T - Fibre Optic SAT+TER LNB

- **CONCLUSIONS:**

- As ASO (Analogue Switch Off) is initiated and concluded locally, this system is the SAT-IF PLUS TER distribution of the future.
- Absolutely NO analogue carriers are permitted (use OTX/ORB).
- TOL32/64T/Sidecar solution CAN use 'legacy' Virtual Converters (if TER distribution is not needed and a 2 to 4 x upgrade of IF output is needed)
- Uses both 1310nm and 1550nm laser technology. Our 2-, 4- and 8-way splitters are 'dual-window' units and will work with current and new systems.
- Current Fibre Optic Cables are good for both wavelengths (loss: 0.3dB at 1310 nm and 0.1dB at 1550 nm)
- Official launch at CABSAT 2010 and ANGA 2010

