

16x DVB-S2 – 16x DVB/C Free To Air Satellite Compact Headend **SIG1616**

Compact Headend



The **SIG1616** satellite compact headend is a 16 FTA channels transmodulator with DVB-S/S2 input and 16 DVB-C output muxes. It has 4 main and 2 auxiliary SAT ports for connecting SAT signal.

Integrated RF multiswitch allows connection 16 demodulators to SAT ports.

Demodulated transport stream reaches processor, which filters services, modifies the Service Information, generates the Network Information table, the LCN (Local Channel Number) and restamps the PCR (Program Clock Reference).

Then transport stream is forwarded to 16 QAM modulators, which produces 16 independent DVB-C output signals.

All the configurations can be made by using the **Web Interface built-in**.

Main Specifications (*)

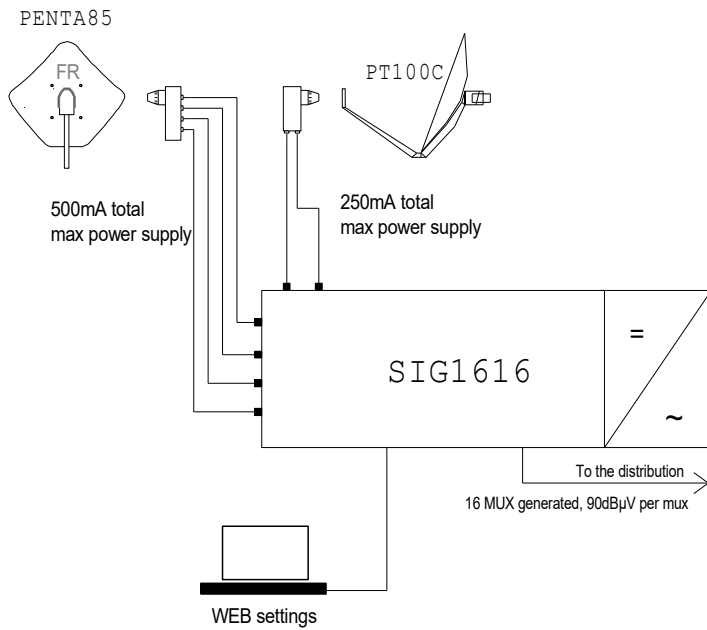
- **Multi SAT Inputs & Multi DVB-C outputs:** up to 16 x DVB-S2/S input tuners and up to 16x DVB-C independent output muxes available.
- **“Mux-ad-Hoc”:** you can fulfill all 16 muxes directly and without remux with the chosen programs tuned from the satellite transponders and manage the descriptor parameters of each mux (ONID, TSID, NetID) and each program inside the mux (LCN, Program name).
- **Many FTA programs over the DVB-C network:** with one single compact headend it's possible to distribute the main international free-to-air satellite programs over the coaxial network
- **WEB interface based headend.** The compact headend setup, and configuration must be done by using the web interface built-in.
- **Event logs:** Many important events, errors, warnings will be logged into the system
- **Diagnostic Informations** available for errors on modulators as well as device temperature informations

		SIG1616 (*)
Fracarro Code		287437
Front-End		
N° of tuners	N°	16
Input frequency	MHz	950÷2150
RF input level	dBµV	45÷85
Input remote power supply	V,Lo	0V / 13V
	H, Lo	0V / 18V
	V, Hi	0V / 13V 22kHz or DiSEqC
	H, Hi	0V / 18V 22kHz o DiSEqC
	Aux 1	0V / 13V
	Aux 2	0V / 18V
		500mA max. total
		250mA max. total
Typical Return Loss	dB	14
Input Demodulation		DVB-S2 (8-PSK, QPSK), DVB-S (QPSK)
Symbol rate	MS/sec	2 ÷ 45 (QPSK) / 2 ÷ 31,5 (8PSK)
Signal processing		ETSI 300421 (DVB-S), ETSI 302307 (DVB-S2)
Output Modulation		
N° of generated multiplex	N°	16 (independent)
Transmission standard		DVB-C
Bandwidth	MHz	4 ÷ 8,3 (3,5 ÷ 7,2Msym/s)
Signal processing		EN300429, ITU-T J.83 A (Annex A)
Modulation		16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Roll off	%	15
Symbol Rate	M symb	3500 to 7200
RF Output		
Output Frequency	MHz	48÷858
Output channels		
Output step tuning	KHz	100
Typical RF output level	dBµV	90
Total Output level adjust.	dB	0÷15
Single Mux adjust.	dB	± 3 (0,5dB step)
Typical Output MER	dB	43
Typical Return Loss	dB	14

		General features (*)
RF mix input	MHz	45÷862
RF insertion loss	dB	3
Mains Supply	Vac, Hz	190-250, 50/60
Max Power Consumption	W	44 (with maximal external DC load)
Connectors	Type	F-Female (RF), RJ45 (10/100 BaseT setup and management)
Dimension (L.× W.× D.)	mm	373x135x69
Weight	Kg	3,1
Operating temperature	°C	-10 ÷ +55
Conformity		EN50083-2, EN60065

(*)Definitive specifications may change without notice.

Installation Example



The new SIG1616 compact headend can handle up to 16 different SAT transponders and remodulate the desired programs on 16 independent DVB-C Digital Multiplex, 90dBμV each.

Remote supply for LNB is available on all the inputs (VLo, VHi, HLo, HHi = max 500mA total; Aux1, Aux2 = max 250mA total).

All settings can easily be made using the integrated WEB INTERFACE.