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**DVB-S  
AND DVB-C  
MODULATORS**





## DCB 812M DIGITAL QPSK MODULATOR



## DDB 852M DIGITAL QAM MODULATOR

### PRINCIPALI CARATTERISTICHE:

- > Rispondente alle specifiche ETS 300 421 (DVB-S) e ETS 300 429 (DVB-C).
- > Ingressi ASI doppi con commutazione automatica integrata.
- > Payload fino a 60 Mbits/s (DVB-S) e 155 Mbits/s (DVB-C).
- > Disponibili in versione stand-alone o plug-in.
- > Adattatore di rete integrato.
- > Uscite doppie ed indipendenti.
- > Disponibili con uscite in diverse bande di frequenza.
- > Interfaccia grafica di gestione via web.

### MAIN FEATURES:

- > Compliant with ETS 300 421 (DVB-S) and ETS 300 429 (DVB-C) specifications.
- > Double ASI inputs with integrated automatic switch-over.
- > Payload up to 60 Mbits/s (DVB-S) and 155 Mbits/s (DVB-C).
- > Available in stand-alone or plug-in versions.
- > Integrated network adapter.
- > Double and independent outputs.
- > Available with outputs in several frequency bands.
- > Graphic management interface via Web.

### CARACTERÍSTICAS PRINCIPALES:

- > Cumple con las normas ETS 300 421 (DVB-S) y ETS 300 429 (DVB-C).
- > Entradas ASI dobles con conmutación automática integrada.
- > Payload hasta 60 Mbits/s (DVB-S) y 155 Mbits/s (DVB-C).
- > Disponibles en versión stand-alone o plug-in.
- > Adaptador de red integrado.
- > Salidas dobles e independientes.
- > Disponibles con salidas en varias bandas de frecuencia.
- > Interfaz gráfica de gestión vía web.

Gli apparati di questa serie rappresentano l'ultima generazione di modulatori QPSK e QAM per il trasporto di segnali televisivi digitali.

Sono disponibili in versione stand-alone (1 unità rack standard 19") ed in versione plug-in, per gli apparati Screen Service, con uscita a Frequenza Intermedia standard (70 MHz) o, a seconda dei modelli, a frequenza variabile tra 10 e 160 MHz, e supportano payloads fino a 60 Mbits/s (QPSK) o 155 Mbits/s (QAM).

Possono essere utilizzati per alimentare ponti microonde per connessioni fisse o mobili, per head-ends di sistemi di TV via cavo o per up-link satellitari, essendo conformi alle specifiche EN 300 421, EN 300 429 e EN 301 201.

Tutti i modelli dispongono di un adattatore di rete interno e di 2 uscite indipendenti in modo da facilitare la distribuzione del segnale modulato.

I parametri di configurazione dei modulatori vengono gestiti e visualizzati, a seconda delle versioni, tramite un pannello di controllo locale con relativo display, tramite porta di connessione seriale RS-232 o tramite una interfaccia utente (GUI) in tecnologia Java per mezzo di un browser web standard.

*The units in this series constitute the new generation of QPSK and QAM modulators for the transport of digital television signals.*

*They are available in stand-alone version (1 standard 19" rack unit) and the plug-in version for Screen Service equipment, with standard intermediate frequency output (70MHz) or, depending on the model, in frequencies varying from 10 to 160 MHz, supporting payloads up to 60 Mbits/s (QPSK) and 155 Mbits/s (QAM).*

*They may be used to feed microwave links for fixed or mobile connections, for cable TV head-end systems, or for satellite up-link, conforming to EN 300 421, EN 300 429 and EN 301 201 specifications. All models are given an internal network adapter and two independent outputs so as to facilitate distribution of the modulated signal.*

*Depending on the version, configuration parameters of the modulators are managed and visualized, either by a local control panel with relative display, through a RS-232 serial connection port or through a user interface in Java technology by means of a standard Web browser.*



**DCB 801M DIGITAL QPSK  
MODULATOR (PLUG-IN VERSION)**



**DCB 811M DIGITAL QPSK  
MODULATOR (PLUG-IN VERSION)**



**DDB 851M DIGITAL QAM  
MODULATOR (PLUG-IN VERSION)**



Save   Reload   Default			Timer Read Interval [S] : 2	
<b>INPUT</b>			<b>BOARD</b>	
ASI 1	Byte/Word rate	26,999,663	ASI 2	0
ASI 2	Packet rate	16,042	SPI	0
SPI	Useful packet rate	16,042	Format	188
Autoswitch ASI	Format	188	188	204
Enabled	Lock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ASI Priority	Overflow	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ASI 1	Wrong	0	0	0
Unused ASI On	CD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Genlock <input checked="" type="checkbox"/> Test CW <input checked="" type="checkbox"/> Center Freq [Hz] 115,000,000 Null Pck. Ins. <input checked="" type="checkbox"/> RF ON <input checked="" type="checkbox"/> Symbol Rate 20,000,000 Err. Pck. Ins. <input checked="" type="checkbox"/> Invert sideband <input checked="" type="checkbox"/> Del Null Pck <input checked="" type="checkbox"/> FEC 2/3 Locked Glock 20,000,000			FIFO packets 16    Power Out 128 FIF0 empty <input checked="" type="checkbox"/> Alarm I <input checked="" type="checkbox"/> FIF0 full <input checked="" type="checkbox"/> Alarm Q <input checked="" type="checkbox"/>	
<b>MOD QPSK 5</b>				
			Temperature 42.58 12 Volt 11.5 5.2 Volt 5.15 3.3 Volt 3.23 1.2 Volt 1.18 2.5 Volt 2.45	
			About   Help   Run	

Los aparatos de esta serie representan la última generación de moduladores QPSK y QAM para el transporte de señales de televisión digitales. Disponibles en versión stand-alone (1 unidad rack estándar 19") y en versión plug-in, para los aparatos Screen Service, con salida de Frecuencia Intermedia estándar (70 MHz) o, según los modelos, de frecuencia variable entre 10 y 160 MHz, y permiten payloads de hasta 60 Mbits/s (QPSK) y 155 Mbits/s (QAM). Se pueden utilizar para alimentar enlaces de microondas para conexiones fijas o móviles, para head-ends de sistemas de TV por cable o para up-

link por satélite, puesto que cumplen con las normas EN 300 421, EN 300 429 y EN 301 201. Todos los modelos disponen de un adaptador de red interno y de 2 salidas independientes para facilitar la distribución de la señal modulada. Los parámetros de configuración de los moduladores se gestionan y visualizan, según las versiones, mediante un panel de control local con relativo display, mediante puerto de conexión serie RS-232 o mediante una interfaz usuario (GUI) con tecnología Java por medio de un navegador web estándar.

# DVB-S AND DVB-C MODULATORS

DIGITAL

## TECHNICAL CHARACTERISTICS

### QPSK MODULATOR

Modulation	QPSK (DVB-S compliant)
Inputs	2 x ASI, BNC, 75 $\Omega$ or 1 x LVDS, Sub-D 25, 100 $\Omega$
Payload	Up to 34 Mbits/s (DCB 80x series) Up to 60 Mbits/s (DCB 81x series)
Network adapter	Internal
Code rates (FEC)	1/2, 2/3, 3/4, 5/6, 7/8
Roll-off	0.35
Output frequency	70 MHz (DCB 80x series) 10-160 MHz (DCB 81x series)
Bandwidth	1.75 to 28 MHz, software selectable (DCB 80x series) 1 to 40 MHz, software selectable (DCB 81x series)
Genlock mode	DCB 81x series only
Null packet insertion and deletion	DCB 81x series only
Error packet insertion	DCB 81x series only
Number of outputs	2 independent, BNC, 75 $\Omega$
Output level	DCB 80x series: -14 dBm, 75 $\Omega$ (others on request) DCB 81x series: -14 to 0 dBm (adjustable), 75 $\Omega$
Return loss	> 26 dB
Control and monitoring	Extensive front panel control Local terminal on RS-232
Remote control and monitoring (optional)	Web based Java interface Telnet access via Ethernet
Operating temperature	-10°C to +45°C
Maximum relative humidity	90%, non condensing
Maximum operating altitude	2500 m a.s.l. (> 2500 m on request)
Mains power supply	90 to 264 V AC, 12 V DC
Dimensions (stand-alone version)	1 RU (19" rack)

### QAM MODULATOR

Modulation	16, 32, 64, 128, 256 QAM (DVB-C compliant)
Inputs	2 x ASI, BNC, 75 $\Omega$ or 1 x LVDS, Sub-D 25, 100 $\Omega$ 2 x G703 (optional)
Payload	Up to 34 Mbits/s, standard Up to 155 Mbits/s, optional
Network adapter	Internal
Roll-off	0.15 - 0.35 (selectable)
Output frequency	70 MHz, standard 10-160 MHz (optional)
Bandwidth	Up to 8 MHz, standard Up to 28 MHz, optional
Number of outputs	2 independent, BNC, 75 $\Omega$
Output level	-14 dBm, 75 $\Omega$ (others on request)
Return loss	> 26 dB
Control and monitoring	Extensive front panel control Local terminal on RS-232
Remote control and monitoring	Web based Java interface Telnet access via Ethernet
Operating temperature	-10°C to +45°C
Maximum relative humidity	90%, non condensing
Maximum operating altitude	2500 m a.s.l. (> 2500 m on request)
Mains power supply	90 to 264 V AC, 12 V DC
Dimensions (stand-alone version)	1 RU (19" rack)



## Screen Service

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*Specifications  
and characteristics  
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change  
without notice.*