Deploy it Yourself

MVDDS/DiY Multipoint Data Video Distribution System

DESCRIPTION

MVDDS/DiY is the 2017 new Hypercable Multichannel Video Distribution System.

percable

It integrates in a new, compact and lightweight housing a complete system able to broadcast in 10, 12 or 14 GHz band a 500 MHz satellite transponder provided at input as multiplexed L-band signals.

Designed for full outdoor installations, housing is IP65 proved and very easy to be installed on a mast or on a tower.

The high linearity and wide dynamic range allows the system guaranteeing optimum quality of the output signal, avoiding intermodulation undesired products and gain unbalances over the full band.

MVDDS/DiY, for every frequency range, provides two output power versions, Standard and High Power, getting up to 10W linear @ 14 GHz High sub-band.

The system embeds a web server for direct monitoring and configuration of the unit, via ad hoc cable or via WI-FI. However, MVDDS/DiY can be remotely controlled by HYC-BER HYCBER or HYCBER3 multi-purpose platform, offering a more complete user interface and TFT display; with HYCBER3 the connection can be wired and wireless, with HYCBER just wired. HYCBER and HYCBER3 can also host many different boards such as HYCBER DVB-S/S2 modulators, encoders, Switches, so that the user can optimize the space, the number of devices and the costs of a full system.

FEATURES



- Full Outdoor Installation
- Ku Band
- Two Output Power Versions
- High Gain and Linearity
- Fully protected against overtemperature, over current and high VSWR.
- Gain adjustment
- Local M&C through Serial and Ethernet ports
- Remote M&C via WIFI
- Remote M&C via HYCEBER and HYCBER3, wired and wireless.

SPECIFICATIONS

<u>General:</u>					
Model	Frequency	Psat	PLin (per carrier)	Oscillator Frequency	
MVDDS/TX14-AH	14.00-14.50 GHz	44.0 dBm	40.0 dBm	12580 MHz	
MVDDS/TX14-A	14.00-14.50 GHz	37.5 dBm	33.5 dBm	12580 MHz	
MVDDS/TX14-BH	13.50-14.00 GHz	44.0 dBm	40.0 dBm	12080 MHz	
MVDDS/TX14-B	13.50-14.00 GHz	37.5 dBm	33.5 dBm	12080 MHz	
MVDDS/TX12-A	12.20-12.75 GHz	39.0 dBm	35.0 dBm	11400 MHz	
MVDDS/TX12-B	11.70-12.25 GHz	39.0 dBm	35.0 dBm	10280 MHz	
MVDDS/TX12-C	11.50-11.90 GHz	39.0 dBm	35.0 dBm	10280 MHz	
MVDDS/TX12-D	11.10-11.50 GHz	39.0 dBm	35.0 dBm	9680 MHz	
MVDDS/TX12-E	10.70-11.10 GHz	39.0 dBm	35.0 dBm	9750 MHz	
MVDDS/TX12-AH	10.70-12.25 GHz	42.0 dBm	38.0 dbm	10280 MHz	
MVDDS/TX10-AH	10.00-10.50 GHz	42.0 _: dBm	38.0 dbm	9050 MHz	

Microwave:

< -30 dBc @ 1.0 x SR			
QPSK/8PSK			
78 dB ±2 dB h.p.			
50 dB ±2 dB s.p.			
20 dB in 0.1 db step			
±0.75 dB (over 40 MHz)			
± 2.0 dB (full band)			
±1.0 dB			
N(f)			
50 ohm			
1.3 : 1			
WR75			
50 ohm			
1.3 : 1			
±1 dB			
<-55 dBc @ PLIN			
Third order IMD (two Signal 5 MHz apart @ P_{IIII}):			
< - 25 dBc			

Upconverter:

L Band Frequency: AGC range: Phase Noise:		950-1700 MHz 25 dB
•	100 Hz	-70 dBc/Hz
•	1 kHz	-90 dBc/Hz
•	10 kHz	-98 dBc/Hz
•	100 kHz	-100 dBc/Hz
•	1 MHz	-120 dBc/Hz

Control:

 Stand-alone With M&C ut 	: RS-232 RS-485 Ethernet (with custom cable) WIFI (HW option) nit CLEBER and CLEBER 3: Ethernet 10/100BaseT WIFI (Only CLEBER3)
Electrical:	
Supply: Consumption: <u>Mechanical:</u>	24V DC (22-65 Vdc) < 150 W
Dimensions: Width Height	128.5 mm 210.0 mm

322.5 mm 12 Kg

Environmental:

Depth Weight:

Temperature range: Humidity:

-20 ÷ 60°C 100% condensing