

# THE ULTIMATE DIGITAL HEADEND

## Product Briefs

### 10 IRD Rack can deliver (FTA + PAY)

We use Professional Digital Satellite receivers with ASI and RF input and IP/UDP output interfaces which offers real time professional receive, demodulation, and descramble and output via Ethernet interface in IP/UDP mpeg-ts format. The CI interface allows the use of PCMCIA cards with smartcard insertion options for decryption of multi crypt and simulcrypt programs. All major CA systems can be decrypted like conax, irdeto, nagravision, Powervue, Mediapher, CTI, DV-crypt, etc.

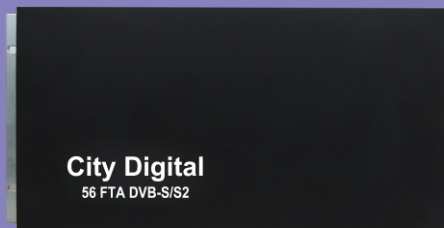
### 10 IRD 7U Rack can deliver up to 150 Channels (FTA + PAY)



### 56 FTA DVB/S/S2 IRD

Highest density of 56 Demodulators available in a single system makes the solution compact and power efficient. All the channels available in each of transponder connected to the Demodulators can be output to the Dual Gigabit interfaces. The output capacity is upto 800x2=1.6 Gbps. Upto 600 channels can be received in the system.

### 56 FTA with 2 Gigabit 5U Rack (300~600 channels)



### IP-EDGE QAM with Multiplexer and Scrambler

The Professional new generation devices that can receive multiple MPEG-TS in form of IP data, and then re-multiplex and scramble it with insertion of CAS and SMS information and finally outputs RF signal after QAM modulation. Multiple RF output channels in a single device makes the Headend more compact and power efficient.

### 4 IN 1 MPEG HD Encoder



### Advantages

SD (Standard definition) HD (High definition and full HD) MPEG2, MPEG4, MPEG4 Part10/H.264/AVC. No additional hardware up gradation required when the broadcasters update their programs from SD to HD, mpeg2 to mpeg4 or add programs in the same transponder. CAS and SMS systems are as per Regulatory guidelines.

### 8 IN 1 FTA IRD



CAS, SMS, EPG Dedicated / Hosted systems available



# City Digital

World Class Modular MPEG-4 Digital Headend

M/s City Online Services Limited, 701, 7th Floor, Aditya Trade Centre, Ameerpet, Hyderabad - 500038, Andhra Pradesh.040-66416886/2, Mobile : 98481 27234 mail : digital@cityonlines.com

# 10 IRD 7U Rack can deliver 100~300 Channels (FTA + PAY)



## Overview:

10 in 1 DVB-S/S2 IP receiver (IRD), is one of the main equipment of cable digital head-end, to receive DVB-S/S2 signals (RF) and output 10 MPTS (transport stream) IP/UDP including all the selected channels in the transponder. It has got 2 CI (common interfaces) for every RF input for descrambling the pay channels via respective CAM modules.

## Features:

- ◆ Comply with DVB standard channel coding
- ◆ PCR Jitter <= 37ns
- ◆ Local and remote management
- ◆ Support IP output (10/100, MPTS Multicast/Unicast ,UDP/IP)
- ◆ High reliability design, stable operation
- ◆ 10 RF ports IRD

## Technical Specification:

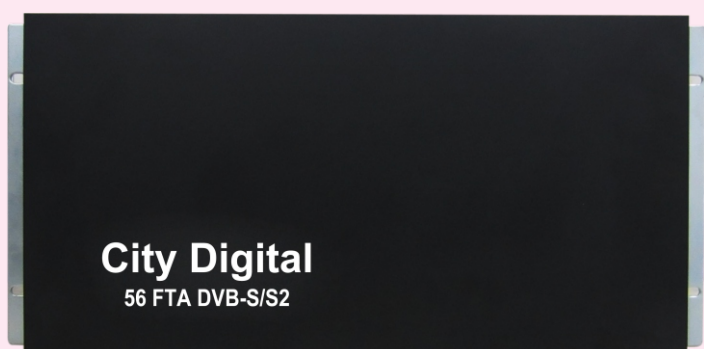
Control		NMS(Ethernet Port), Keyboard+LCD
Demodulation Mode		DVB-S/S2
Symbol rate		1~7Mbaud/s
Frequency		950MHz ~ 2150MHz
Error correction coding		RS Coding 188/204
Input	RF	10 F-type
	IP data insert	RJ-45 10/100 base TX Ethernet port(NMS)
output	IP	10 x RJ 45 10/100 Ethernet MPTS Multicast/Unicast
	Output LEV	UDP(TS over IP)
	impedance	>=115dB( V
	Output Return Loss	75 ohm
General Features	Size	>=12 dB
	Environment	7U 19" Rackmount chassis
		0 ~ 45(Operating);-20 ~ 80(Storage)



World Class Modular MPEG-4 Digital Headend

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# 56 FTA with 2 Gigabit 5U Rack



## Overview:

56 DVB-S/S2 IP receiver (IRD), is one of the main equipment of cable digital head-end, to receive DVB-S/S2 signals (RF) and output SPTS multicast IP/UDP including all the selected channels from each transponder. It has got 2 Gigabit Ethernet output interfaces which can deliver upto 800 Mbps from each port

## Features:

- ◆ Comply with DVB standard channel coding
- ◆ PCR Jitter <= 37ns
- ◆ Web browser local and remote management
- ◆ Support IP output (100/1000, SPTS Multicast, IP/UDP)
- ◆ High reliability design, stable operation
- ◆ 56 RF ports

## Technical Specification:

Control		Web Browser
Demodulation Mode		DVB-S/S2
Frequency		950MHz ~ 2150MHz
		QPSK, 8PSK
Input	RF	56 F-type 75 ohms
	Input Level	-(65 ~ 25) dbm
output	IP	2 x RJ 45 100/1000 Ethernet SPTS Multicast
		UDP(TS over IP)
	Data Rate	2x800 Mbps = 1.6Gbps
General Features	Size	5U 19" Rackmount chassis
	Environment	0 ~ 45(Operating);-20 ~ 80(Storage)



World Class Modular MPEG-4 Digital Headend

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# Encoder & FTA IRDs

## 4 IN 1 MPEG HD Encoder



### Overview:

MPEG-4 AVC/H.264 high definition(HD) encoder is a user-friendly, powerful encoder with multi-service capability, flexibly delivering multiple full and low resolution services to a range of devices. It supports multiple HD formats including 1080i/p, 720p. Besides it supports TS(UDP) over IP output, combined with 4HDMI inputs. Definitely, it conforms to the H.264 standard from the ITU.

## 8 IN 1 FTA IRD



### Overview:

8 in 1 DVB-S/S2 IRD is one of the main equipment of cable digital head-end, to receive DVB-S/S2 signal (RF) and output to Gigabit ethernet (IP/UDP) containing all the channels in the selected transponders.



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# DVB City Digital Headend

