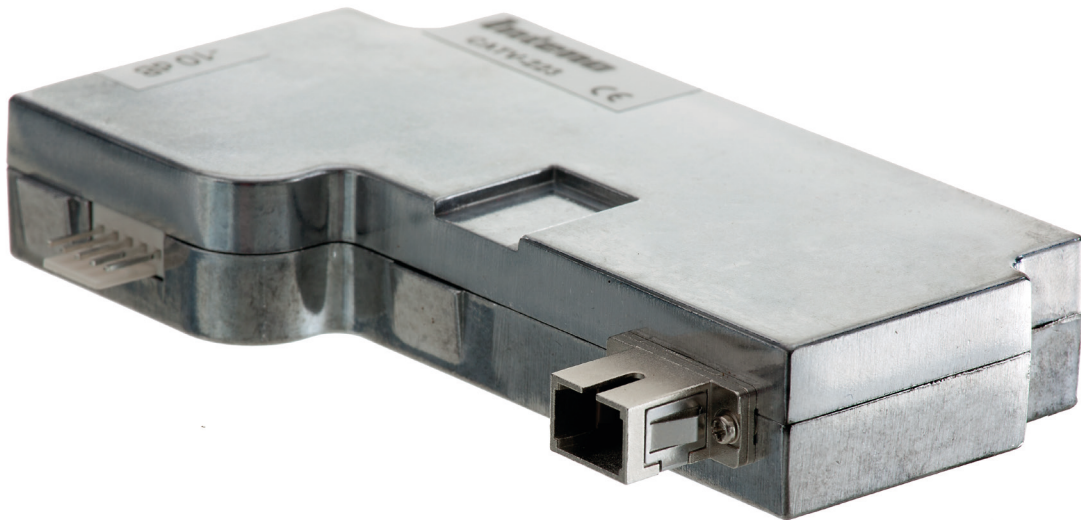


## **Inteno CATV-202**

# *An overlay CATV module with monitoring function*



Inteno CATV-202 is a compact CATV module with monitoring functions and RF on/off switch. CATV-202 provides a SC/APC receptacle connector for fiber input and both F-connector and IEC-connector for RF output signal. Designed for integration in the Inteno FG500 FTTH RGW.

### **Features**

- 47MHz~1000MHz bandwidth.
- F-female and PAL connector and for CATV RF output
- AGC supported.
- Optical input power monitoring.
- RF output level monitoring.
- Weak signal alarm LED.
- Power On / Off control with Mode-Stay memory.
- Aluminum Alloy metal shield.
- Simplex SC / APC receptacle Connector.
- Video RF signal output with 75 Ohm impedance.
- I2C control interface.
- +12V power input voltage.
- RoHS compliance



# **Inteno**

### Absolute Maximum Ratings

Parameter	Symbol	Min	Typ.	Max	Units	Note
Storage Temperature	Tstg	-40	-	85	-	-
Operating Temperature	Topr	0	-	70	-	Case temperature
Power Supply Voltage	Vcc	10.8	12	13.2	V	-
Soldering Temperature	TS	-	-	260	-	10 seconds on leads only

### CATV Receiver Specifications ( 0 ° C < Topr < 70 ° C, Vcc=12V, 75Ω system)

Parameter	Symbol	Min	Typ.	Max	Units	Note
Frequency bandwidth	f	47	-	1000	MHz	-
Optical Wavelength	$\lambda_c$	1290	1550	1580	nm	-
Optical Input Power	PIN	-10	-	-2	dBm	1
1st RF output level		77	83	85	dBuV	2, 3
2nd RF output level		71	73	75	dBuV	4
Up-tilt		3		7	dB	-
Frequency Response Flatness	-	-1.5	-	+1.5	dB	-
CNR	-	46	-	-	dB	5
CTB/ CSO	-	60	-	-	dBc	6
Output Return Loss		16			dB	7
RF Output impedance	Ro	-	75	-	Ohm	-
Power Consumption		-	2	-	W	-
Threshold Optical power	-	-10	-	-	dBm	
	-	-	-	-12	dBm	LED On

#### Notes:

1. AGC working range is -2~-8dBm.
2. At 47MHz, OMI=5%, F-female connector.
3. The minimum RF output level is 81 dBuV and 77 dBuV @ -8~-2 dBm and -10~-8 dBm optical input power range respectively.
4. At 47MHz, OMI=5%. PAL female connector(IEC 169-2).
5. PAL 42ch, at -8dBm.
6. PAL 42ch.
7. 47MHz, -1.5dB/octave



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#### Pin Definition

From TOP to Down:

1. Vin (+12V)
2. GND
3. SCL (I2C)
4. SDA (I2C)
5. GND



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