

The **IRX1** headend/hub ingress receiver detects, measures, and localizes ingress events on a continuous basis. It monitors signals transmitted over the air via the CPAT FLEX field devices. It then transmits the identified capture points to CPAT WEB management application, which in turn displays the event-related data to the field technicians on their real-time ingress monitoring (RIM) mobile application.

In summary, the IRX1 enables the cable operator to take the ‘find’ time out of the ‘find-and-fix’ equation, diminishing subscriber downtime and HFC plant hardening related to return path ingress impairments.

HIGHLIGHTS

Cost-effective, head-end receiver operating on fixed upstream, selectable frequencies

Ingress location identification with a precision of ± 2.5 meters

32 RF ports per IRX1 return node combining up to 128 nodes

Remote or local configured alarm notifications

Tracking of multiple ITX1 receivers from the field via web-based and mobile applications



SPECIFICATIONS

IRX1

ELECTRICAL	Details
Operating frequency bandwidth	6.78 MHz, 27.12 MHz, 40.68 MHz
Measurement range	-23 to 50 dBmV
Sensitivity	-23 dBmV (BER < 10-6) (attenuator @ 0 dB)
AGC attenuator	0-15 dB in 0.5 dB steps
Level accuracy	±2 dB on signal pulses
Monitoring mode	Continuous shared detection between 8 RF ports
Frame capture time	10 ms
Continuous ingress detection capability	100 events/sec/IRX1
Power	120 VAC, 0.7 A (60 W) fully loaded
PHYSICAL	Details
Dimensions [H x W x D]	1RU chassis 4.4 cm x 42.2 cm x 33 cm / 1.75"x 16.6" x 13"
Operating temperature	0° to +60° C / 32° to +140° F

ORDERING INFO	P/N
IRX1 Head-end ingress receiver @ 6.78 MHz	150-00025-100
IRX1 Head-end ingress receiver @ 27.12 MHz	150-00024-100
RELATED ITEMS	P/N
ARD4 - Autonomous recording device	150-00020-100
ITX2 - Portable ingress radio transmitter @ 6.78 MHz	150-00026-100
ITX2 - Portable ingress radio transmitter @ 27.12 MHz	150-00027-100

* Specifications subject to change without prior notice.



TECHNICAL SUPPORT TEAM

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