

// Proactive Ingress Maintenance (PIM)

Address Network performance issues pro-actively to improve customer satisfaction and reducing customer churn rate. Our PIM system continuously transmits a low power ingress test signal in the upstream band of your broadband cable network helping your technician find-and-fix the source of the ingress interference within the shortest period of time. Now available with or without CPAT web monitoring application. Use it as an effective find-and-fix tool or integrate to our geo-localized CPAT Flex system (Requires ARD4 module and web-hosting services)

“PIM” ELIMINATE THE NEED of ADDITIONAL ELEMENTS IN YOUR PLANT.



●●● Portable transmitter (ITX2)

The ITX2 transmitter kit (US Patent: US 8,752,108 - CAN Patent: CA 2,746,924) includes a portable radio transmitter, a truck-mounted transmitting antenna and a portable transmitting antenna (near-field). The ITX2 operation requires the use of the CPAT mobile application (smartphone or tablet) which provides ingress level feedback from the HE/Hub location to the user in the field.

●●● HE/Hub Ingress Receiver (IRX1)

The 32-port IRX1 receiver captures any ingress signal from any ITX2 broadcasting in the cable plant. It will then immediately relay the data to our server and then down to the mobile application, providing real-time signal level readings to the technician.

●●● Efficient upstream bandwidth usage

The ITX2 can operate in the upstream band at one of these three frequencies: 6.78 MHz, 27.12 MHz, or 40.225 MHz. The transmitted carrier has a very narrow bandwidth, broadcasting of the selected frequency will have no impact or minimal impact on current and future upstream services.

●●● CPAT Mobile Application Suite

Real-time ingress monitoring (RIM) is available on a mobile application for Apple iOS and Android. The RIM will assist you in locating ingress points within a few feet. Works in conjunction with the ITX2 and the portable hand held monopole antenna. Single Tech Ingress detection tool. The app will display drop down list of ITX2 to choose from, obtain real-time ingress level readings from IRX1, record events.

●●● MTTR (Mean-Time-to-Repair)

Once an ingress impairment is detected, the technician using the portable ITX2 and the mobile application can precisely within meters rapidly find-and-fix the source of the ingress point.

Specifications

// Technical

Transmitter type	Digital receiver/demodulator
Frequency range	6.78 MHz or 27.12 MHz, 40.225 MHz (set at factory)
Bandwidth	30 kHz
Radiated power	Maximum: -8 dBm at 6.78 MHz Maximum: -16 dBm at 27.12 MHz
Antenna connector	BNC 50 OHM
Transmitted data	68 bits
Transmission duration	8 ms
Transmission interval	100 ms
Communication port	USB type A

// Electrical and Environmental

Power	Inputs: +12VDC 1.2A max +7.2VDC lithium ion battery pack of 2000 mAh ~ 0.3A
AC battery charger	Input: 100-240V ~ 50-60Hz 0.7A Output: +12VDC 1.66A Transient overvoltage II Rated pollution degree 2
Mains supply voltage fluctuations	Up to ±10 % of the nominal voltage
Operation time	6 hours nominal on battery power
Operating temp	-20° to +40° C / -4° to +104° F
Storage temp	-20° to +45° C / -4° to +113° F
Recommended use	Indoor use or outdoor use without exposing to direct sunshine or wet location
Maximum relative humidity	80% for temperatures up to 31°C (88°F) decreasing linearly to 50% relative humidity at 40°C (104°F)

// Physical

ITX2 with its rubber holster only (no antenna):

Dimensions	19.5 cm x 8.6 cm x 4.5 cm / 7.7"x 3.4"x 1.8"[H x W x D]
Weight	550 g / 19 ounces

* Specifications subject to change without prior notice.

// Ordering Information

P/N

ITX2 Ingress Transmitter Module @ 6.78 MHz	150-00026-001
ITX2 Ingress Transmitter Module @ 27.12 MHz	150-00027-001
ITX2 Ingress Transmitter Module @ 40.225 MHz	150-00028-001

// included accessories (antenna freq dependent)

110-220 VAC to 12 VDC Adaptor	037-00011-001
Belt Strap	039-00027-001
Rubber Holster	110-00010-001
Sub-VHF portable antenna 6.5po. with BNC @ 6.78 MHz	111-00036-001
Sub-VHF portable antenna 6.5po. with BNC @ 27.12 MHz	111-00037-001
Sub-VHF portable antenna 3.0 po. with BNC @ 40.225 MHz	111-00040-001
Coax cable 48in. UHF to BNC male RG58	037-00011-001
Adapter UHF female to UHF female	150-00027-001
DC Power adaptor	110-00005-001
Dashboard holder	011-00019-001

// Accessory Options and Related Items

Vehicle Magnetic-mount Sub-VHF antenna @ 6.78 MHz	112-00001-100
Vehicle Lip-mount Sub-VHF antenna @ 6.78 MHz	112-00008-100
Vehicle Magnetic-mount Sub-VHF antenna @ 27.12 MHz	112-00010-100
Vehicle Lip-mount Sub-VHF antenna @ 27.12 MHz	112-00011-100
Vehicle Magnetic-mount Sub-VHF antenna @40.225 Mhz	112-00017-100
Vehicle Lip-mount Sub-VHF antenna @ 40.225 MHz	112-00018-100
IRX1 – Ingress Receiver @ 6.78 MHz	150-00025-001
IRX1 – Ingress Receiver @ 27.12 MHz	150-00024-001
IRX1 – Ingress Receiver@ 40.225 MHz	150-00026-001