



ILC-T Line Card

The Intelligent Transmit Line Card, ILC-T, is a compact, high performance line card compatible with the Intelligent Hub (iHub). It supports DVB-S2 or DVB-S2X on up to four simultaneous carriers. The ILC-T supports an aggregate bandwidth of 500MHz across a 2.4GHz range from 950MHz to 2450MHz. When installed in the iHub along with an ILC-R multi-channel demodulator line card, the ILC-T is ideally suited for HTS Satellite Operators and Service Providers on the iDirect Velocity® platform.

Network Configuration

Network Technology	Four independent carriers supporting simultaneous modulation of DVB-S2 or DVB-S2X waveforms
Symbol Rate*	DVB-S2: 1 to 45 Msps DVB-S2X: 1 to 475 Msps
Roll-off Factors	5%, 10%, 15%, 20%

Interoperability

Compatible with Intelligent Hub (iHub)
Requires Velocity 3.3.1 software or above

Interfaces

SatCom Interfaces

TxIF: SMA, 950–2450 MHz, -40dBm to 0dBm power

Data Interfaces

10GbE interface via iHub backplane

Timing Interface

Locked to iHub Timing Module through backplane

Mechanical & Environmental

Redundancy	Software controlled, hot-swappable, and auto-failover
Weight	0.83 kg (1.48 lbs)
Operating Temperature	0° to +45°C (+32° to +113°F)
Humidity	0–95% non condensing
Input Voltage	24V, 65W (max)

* Maximum supported symbol rate is platform and software release dependent

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